

ALBERTA

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ANNUAL
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ANNUAL REPORT

OF THE

DEPARTMENT OF PUBLIC WORKS

OF THE

PROVINCE OF ALBERTA

1915

PRINTED BY ORDER OF THE LEGISLATIVE ASSEMBLY



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1916

ANNUAL REPORT

DEPARTMENT OF PUBLIC WORKS

1910-1911

1911

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EDMONTON, February 24th, 1916.

To His Honour,

ROBERT GEORGE BRETT,

Lieutenant Governor of the Province of Alberta.

May It Please Your Honour:—The undersigned has the honour to submit herewith the Report of the Department of Public Works for the year ending December 31st, 1915.

Respectfully submitted,

CHAS. STEWART,

Minister of Public Works.

REPORT OF THE DEPUTY MINISTER OF PUBLIC WORKS

HON. CHAS. STEWART, M.P.P.,

Minister of Public Works.

Sir,—I have the honour to submit herewith the report of the Department of Public Works for the year 1915.

Every effort was made during the season to conduct the operations of your Department with economy and efficiency and satisfactory progress was made in all branches of the work.

In the Highways Branch the number of bridge construction crews employed and the number of bridges dealt with were both somewhat smaller than in the previous year. The total number of bridges dealt with was 520, of which 343 were construction and 177 repairs. The flood water of the Red Deer and North Saskatchewan Rivers and their tributaries caused a considerable amount of damage to the bridges and ferries on those streams. The damages caused by floods on the streams issuing from the mountains have been repaired as far as possible. In addition to this the regular program of construction and repair of bridges was carried out satisfactorily. In the matter of Road Construction and Maintenance, I would like to point out that as the mileage of constructed road increases from year to year, the problem of maintenance assumes more and more importance. The assistance of Local Improvement Districts and Rural Municipalities is being enlisted and a system of road maintenance is being organized with a view to properly conserving the construction work that is being done.

In the newer portions of the Province considerable road work of a pioneer nature was undertaken so that the settlers might be provided with an outlet to their nearest shipping point.

The report of the Engineer of Highways contains a detailed statement of the work of that branch of the Department.

In the Architectural Branch of your Department the staff was much reduced during the year, as no very large building construction program was being carried out. The work of this branch consisted principally of the completion of plans and construction in connection with the work undertaken in previous years. Additions, alterations or repairs were made in several of the buildings under the control of this Department, and the maintenance of the buildings has been carefully looked after. Considerable assistance has been rendered to the Department of Education in the preparation of standard plans and specification for rural school buildings. Assistance has also been given to the Department of Agriculture in the preparation of plans for farm buildings. A detailed statement of the work is shown in the report of the Provincial Architect.

The number of surveys made during 1915 is somewhat below the average of former years. This was probably due to the lateness of the spring and the heavy rains of the summer which interfered considerably with the work. A considerable number of surveys asked for in 1915 has had to be carried over to 1916 for attention. The arrangement whereby Local Improvement Districts and Rural Municipalities take care of the surveys required within their limits, has been found to work out satisfactorily, and it is now purposed to extend this arrangement, as far as possible, to unorganized units.

In the Report of the Mines Branch of your Department, it is to be noted that there was a considerable decrease in the amount of coal produced in the Province during the last season. A slight depression in trade, and the mild weather experienced during the early months of the year, reduced the consumption of coal. The withdrawal of labor through enlistment, also helped to reduce the output of some of the mines. A careful analysis of the situation is being made with a view to widening the market for Alberta coals.

There were only eighteen fatal accidents during the year, and the number of non-fatal accidents has also been considerably reduced. Every effort is being taken to guard against accidents in the mines, and to provide means for preventing accidents, when they do occur, from causing a disastrous loss of life. The report of the Mines Branch contains, in elaborate detail, a complex statement of the operation of the industry for the year.

In the administration of the Steam Boilers Act, the work has been carried on successfully during the year. The increased acreage under cultivation has resulted in a considerable increase in the use of steam machinery for farm purposes. The bringing of low pressure steam heating plants under the operation of the Act has also added to the work of this branch.

The Report of the Correspondence and Accounting Branches shows a slight increase over the previous year. A considerable number of employees of your Department have enlisted for service in the overseas forces of the Dominion, and have been given leave of absence on that account. Where necessary their places have been temporarily filled. It is hoped that the filling of their places is only temporary and that, when peace is restored, they may be able to return to their work in your Department.

Respectfully submitted,

L. C. CHARLESWORTH,

Deputy Minister.

HIGHWAYS BRANCH

L. C. CHARLESWORTH, ESQ.,

Deputy Minister of Public Works.

Edmonton.

Sir,—I beg to submit herewith the report of the work performed by the Highways Branch of the Department of Public Works for the year ending December 31st, 1915.

The number of bridges dealt with during the year was 520. Of those 343 were construction and 177 were repairs.

The waters of the North Saskatchewan and Red Deer Rivers and their tributaries were abnormally high in the summer of 1915, and great damage was caused to several of our bridges and ferries. The large steel bridges at Hagen's Crossing, Niddries Crossing and Mountain House Crossing, on the Red Deer River, were badly wrecked, as was also the Clearwater bridge, near Rocky Mountain House. The problem of erecting permanent bridges at moderate cost on the streams issuing from the foothills of the mountains, is one that presents many engineering difficulties. Especially in view of the fact that the position of these streams sometimes changes to such an extent that after a flood is over, the bridge will be standing high and dry, and the stream passing through a new channel, thus making it necessary to move the bridge.

The 80 foot steel span on concrete abutments over Pincher Creek, west of Brocket Station, was completed early in the season.

A steel bridge consisting of one 175 foot span on concrete abutments was erected over High River at Aldersyde.

The bridge over the Clearwater River at Rocky Mountain House was repaired. The 125 foot steel span was taken down and straightened and an old 80 foot span from Macleod was erected in place of the one that was washed out and destroyed; two 20 foot pile bents were built on the south end, and one 20 foot bent on the north end.

At Hagen's Crossing on the Red Deer River, a bridge consisting of three 125 foot steel spans on concrete piers and abutments, and two 50 foot timber trusses, was built, with nine 20 foot pile spans on the east approach. With the view of holding the river in its present channel, 2000 feet of bank protection was constructed by driving and capping piles, and filling with rock and brush.

At Fort Saskatchewan the traffic deck on the C. N. Ry. bridge was refloored, and the approaches rebuilt on concrete pedestals and timber posts.

A full list of the bridges dealt with during the season is attached herewith.

Considerable damage was done to the ferries on the Red Deer and North Saskatchewan Rivers by the floods, as a consequence of

which two of these ferries, namely, at Steerford and Garrington, discontinued operations for the season. Four new ferries were built and installed, and new scows were built for six of the ferries in operation, and the cost of the service is gradually increasing as new territory is being opened up and new lines of traffic being established.

A large amount of road work was carried on during the year. A considerable portion of this work was in the extension and maintenance of our main and trunk road systems. We have endeavored, as far as possible, to establish a system of maintenance of our trunk roads. In some localities, we have supplied road drags to the Local Improvement Districts and Rural Municipalities for the purpose of dragging the trunk roads during the season. At other points, we have employed settlers living along the road for this purpose. The greatest difficulty we have encountered is to get the road dragged at the proper time. In the past, the tendency has been strong, by those employed to do this work, to look upon the dragging of the road as a secondary consideration, it being done when they had nothing else to do. The result of which is that the road becomes rutted; left too long the soil becomes baked, and it is then too late to do anything with it. We are, however, pleased to state that better results are being obtained as the advantage of proper dragging of earth roads is being appreciated by the general public.

We have also, as far as the funds at our disposal would allow us, endeavored to make possible outlets for the newer settlements, and the less favorably situated portions of the older settled districts.

Attached hereto you will find a full list of the ferries operated and the roads improved during the year ending December 31st, 1915.

Your obedient servant,

J. D. ROBERTSON,

Engineer of Highways.

Edmonton, February 24, 1916.

BRIDGES

STREAM	LOCATION	SIZE AND CLASS OF BRIDGE
Anderson Creek	N. of 9-74-9-6	One 16 ft., two 14 ft., and one 7 ft. span on piles.
Angling Creek	N. of 10-62-2-4	Repairs.
Blood Indian Creek ...	Bet. 10/15-27-9-4	One 18 ft. span on piles.
Baptiste Creek	Bet. 25/30-66-23/24-4 ..	One 35 ft. truss on abutments.
Beaver River	Bet. 31/36-62-10/11-4 ..	Six 20 ft. spans on piles.
Bow River	In 3-21-19-4	Repairs.
Battle River	N.W. 36-40-16-4	Repairs.
Boundary Creek	N.W. 11-1-26-4	Repairs.
Bow River	At Morley	Repairs.
Beaver Dam Coulee ...	Bet. 26/27-28-3-5	Repairs.
Blackmud Creek	Bet. 12/13-52-25-4	One 40 ft. truss and three 18 ft. spans, reconstructed.
Blackmud Creek	Bet. 7-18-51-24-4	Repairs.
Backwater	On the Athabasca River-Edson Trail	Repairs.
Berry Creek	N.E. 4-22-12-4	Repairs.
Berry Creek	Bet. 35/36-27-13-4	Three spans on piles.
Berry Creek	Bet. 35/1-30/31-12-4 ..	Two 20 ft. spans on piles.
Bullpound Creek	S. of 1-27-14-4	Two 18 ft. spans on piles.
Bullpound Creek	Bet. 8-17-3-14-4	Two 20 ft. spans on piles.
Berry Creek	Bet. 13/14-24-13-4	Three 20 ft. spans on piles.
Berry Creek	Bet. 26/27-22-13-4	Three 20 ft. spans on piles.
Blindman River	Bet. 15/16-39-28-4	Repairs.
Blackmud Creek	N.E. 7-50-24-4	Repairs.
Big Peigan	Bet. 27/28-7-5-4	One 20 ft. span on piles.
Big Peigan Creek	Bet. 3/4-8-5-4	One 20 ft. span on piles.
Burnt River	In 4-77-5-6	Reconstructing on one 52 ft. and 2-20 spans.
Buffalo Creek	Bet. 5/6-74-7-6	Repairs.
Buffalo Creek	Bet. 16/17-74-6	Repairs.
Bearhead Creek	Bet. 7/18-81-19-5	Repairs.
Boucher Creek	East of 8-81-3-6	Six 10 ft. spans on piles.
Blindman River	Bet. 16/17-42-2-5	Repairs.
Bear Creek	N. 7-63-2-4	One 18 ft. span on piles.
Beaver River	S.E. 25-62-6-4	Repairs.
Borwick Slough	In 32-56-16-4	Two 20 ft. pile spans reconstructed.
Big Stone Creek	Bet. 27/28-46-25-4	Repairs.
Battle River	S.E. 25-45-23-4	Repairs.
Battle River	S.W. 7-46-1-5	Repairs.
Battle River	Bet. 33/34-45-1-5	Repairs.
Creek	Bet. 35/6-66/67-22/23-4 ..	Five 10 ft. spans on abutments.
Creek	S.E. 1/4 20-66-22-4	Three 20 ft. spans on piles.
Creek	N.W. 1/4 2-69-23-4	One 28 ft. abutment bridge.
Creek	Bet. 27/28-59-9-4	Repairs.
Creek	Bet. 21/22-59-9-4	Repairs.
Creek	Bet. 15/16-60-9-4	Repairs.
Crowfoot Creek	Bet. 6/31/21/22-20-4 ..	Repairs.
Creek	N.E. 9-23-21-4	One 20 ft. span on piles.
Creek	S.E. 16/23-21-4	One 20 ft. span on piles.
Creek	In Sec. 10-25-2-5	Reflooring of bridge.
Creek	32/4-2/3-26-4	Repairs.
Creek	N.W. 7-2-26-4	Repairs.
Creek	S.W. 9-3-26-4	Repairs.
Coulee	35/36-3-25-4	One 16 ft. pile span.
Creek	31/32-2-26-4	Repairs.
Creek	32/4-2/3-27-4	Repairs.
Creek	3/4-3-26-4	Filling on abutments.
Creek	9/16-3-26-4	Repairs on abutments.
Creek	S.W. 12-4-22-4	Grading approaches.
Creek	S.E. 2-11-29-4	One 20 ft. span on piles.
Creek	S.E. 2-11-29-4	One 20 ft. span on piles.

DEPARTMENT OF PUBLIC WORKS

STREAM	LOCATION	SIZE AND CLASS OF BRIDGE
Creek	E. $\frac{1}{2}$ 33-10-29-4	One 20 ft. span on piles.
Creek	N. $\frac{1}{2}$ 7-9-28-4	One 16 ft. span on piles.
Creek	1/36-59/60-3-5	One 16 ft. span on piles.
Creek	33/34-60-3-5	One 16 ft. span on abutments.
Creek	S.W. 32-61-5-5	One 24 ft. span on abutments.
Creek	N. $\frac{1}{2}$ 28-61-5-5	One 16 ft. span on abutments.
Creek	28/29-29-4-5	Reconstruction.
Creek	32/33-29-4-5	Reconstruction.
Creek	N.E. 21/28-3-5	One 20 ft. span on piles.
Creek	15/16-28-28-4	One 20 ft. span on piles.
Creek	21/22-28-28-4	One 20 ft. span on piles.
Creek	20/29-28-1-5	Driving piles for Council.
Creek	13/18-33-6/7-4	One 18 ft. frame bent.
Creek	2/35-34/35-11-4	One 20 ft. frame bent.
Creek	N. $\frac{1}{2}$ 36-34-5-4	One 20 ft. frame bent.
Creek	W. $\frac{1}{2}$ 8-37-10-4	One 16 ft. span, mud sills.
Creek	25/30-37-10/11-4	One 16 ft. frame bridge.
Creek	25/30-37-10/11-4	One 16 ft. frame bridge.
Creek	N.E. 9-32-3-4	One 16 ft. frame bridge.
Creek	10/15-32-3-4	One 16 ft. frame bridge.
Creek	14/15-32-3-4	One 16 ft. frame bridge.
Creek	N.E. 23-32-3-4	One 16 ft. frame bridge.
Creek	W. $\frac{1}{4}$ 18-37-9-4	One 16 ft. frame bridge.
Creek	E. $\frac{1}{2}$ 2-38-12-4	One 16 ft. frame bridge.
Creek	12/13-29-28-4	Repairs.
Coulee	36-32-4-5	Repairs.
Coulee	E. 12/29-29-4	One 16 ft. bridge on piles.
Creek	N.E. 36-30-22-4	One 20 ft. span on piles.
Crooked Creek	N.W. 15-30-3-5	One 20 ft. span on piles.
Creek	Centre line of W. $\frac{1}{2}$ 9-30-24-4	One 20 ft. span on piles.
Creek	13/18-29-27/28-4	One 20 ft. span on piles.
Creek	11/12-29-1-5	One 18 ft. span on piles.
Creek	7/18-29-27-4	Piles driven for Council.
Creek	Sec. 20-51-24-4	Repairs.
Creek	Sec. 20-51-24-4	Repairs.
Creek	Centre 33-51-23-4	Reconstruction.
Coulee	N.E. 16-54-16-5	One 20 ft. span on piles.
Creek	N.E. 10-54-14-5	One 32 ft. span on piles.
Camp Creek	26/27-45-14-5	Three 20 ft. spans on cribs.
Creek	N. $\frac{1}{2}$ 20-54-15-5	Five 17 ft. spans on piles.
Creek	35/36-53-16-5	One 20 ft. span on piles.
Creek	S.E. 25-53-17-5	One 15 ft. span on piles.
Chalmer Creek	N. 35-56-14-5	Three 10 ft. spans on abutments.
Cash Creek	S. 4-56-15-5	One 20 ft. span on piles.
Creek	7/12-28-24/25-4	Repairs.
Creek	S. 18-28-23-4	Repairing floor of bridge.
Creek	S.W. 31-28-27-4	One 20 ft. span on piles.
Canal	In Sec. 18-23-27-4	Two 16 ft. and one 20 ft. span on piles.
Creek	1/34-26/27-27-4	One 20 ft. span on piles.
Creek	4/32-26/27-27-4	One 20 ft. span on piles.
Creek	N. 32-24-22-4	One 20 ft. span on piles.
Creek	24/25-74-17-5	Repairs.
Creek	22/23-75-15-5	One 20 ft. span on piles.
Creek	34/35-80-19-5	Repairs to three 20 ft. spans.
Creek	13/14-75-17-5	One 10 ft. span on piles.
Creek	N.W. 9-74-13-5	Two 10 ft. spans on piles.
Creek	29/30-74-15-5	One 16 ft. span on piles.
Creek	23/24-74-17-5	One 20 ft. span on piles.
Creek	22/26-80-19-5	One 60 ft. span on piles.
Creek	29/30-74-15-5	One 16 ft. span on piles.
Creek	S.E. 12-30-19-4	Two 16 ft. spans on piles.
Creek	23/26-30-17-4	One 16 ft. span on piles.
Creek	14/15-30-17-4	One 16 ft. span on piles.
Creek	22/23-30-17-4	One 16 ft. span on piles.

STREAM	LOCATION	SIZE AND CLASS OF BRIDGE
Creek	S.E. 17-29-13-4	One 16 ft. span on piles.
Creek	E. 27-30-14-4	One 16 ft. span on piles.
Creek	12/13-30-20-4	One 20 ft. span on piles.
Creek	24/25-30-19-4	Repairs.
Creek	10/11-30-18-4	One 16 ft. span on piles.
Creek	5/6-30-16-4	One 16 ft. span on piles.
Creek	32/33-18-29-4	Two 16 ft. spans on piles.
Creek	N.W. 31-40-3-5	One 29 ft. span on piles.
Creek	31/36-41-3/4-5	One 16 ft. span on piles.
Creek	W. 1/2 27-40-3-5	One 18 ft. span subway.
Creek	N. 21-55-5-5	One 18 ft. span on piles.
Creek	W. 19-48-23-4	Repairs.
Creek	N.W. 22-49-24-4	Repairs.
Conjuring Creek	S. 36-49-27-4	Repairs.
Creek	24/25-49-27-4	Repairs.
Creek	W. 12-50-26-4	Repairs.
Creek	9/16-48-25-4	One 18 ft. span on piles.
Creek	S.W. 18-48-23-4	One 18 ft. span on piles.
Creek	W. 13-50-28-4	Two 18 ft. spans on piles.
Creek	1/2 50-28-4	Two 16 ft. spans on piles.
Creek	W. 30-49-27-4	Two 16 ft. spans on piles.
Creek	N. 12-49-27-4	Two 20 ft. spans on piles.
Creek	S.E. 49-48-25-4	One 18 ft. span on piles.
Creek	2/3-50-24-4	Constr. culvert, 9 ft. opening.
Creek	E. 30-10-21-4	Repairs.
Creek	N. 19-15-21-4	One 20 ft. span on piles.
Creek	19/30-16-21-4	Five 20 ft. spans on piles.
Crowan Creek	S.E. 16-11-3-4	Repairs.
Capehorn Creek	10/15-10-2-4	Repairs.
Carchim Creek	30/25-4-6/7-4	Two 20 ft. spans on piles.
Creek	N. 32-11-8-4	One 18 ft. frame bridge.
Creek	23/26-14-29-4	One 20 ft. span on piles.
Creek	S.E. 7-20-2-5	Repairs.
Creek	E. 13-21-3-5	Driving piles.
Creek	E. 4-23-1-5	Reflooring.
Creek	S.E. 28-34-27-4	One 20 ft. span on piles.
Creek	N. 19-81-3-6	One 18 ft. log bridge.
Creek	N. 24-81-4-6	One 18 ft. log bridge.
Creek	N. 7-74-8-6	Three 15 ft. frame bents.
Creek	N.E. 27-72-10-6	Three 15 ft. spans on piles.
Creek	19/20-73-10-6	Four 10 ft. and two 13 ft. spans on piles.
Creek	12/13-74-10-6	One 16 ft. and four 14 ft. spans on piles.
Creek	10/15-74-8-6	Two 10 ft., two 11 ft., and one 18 ft. spans on piles.
Creek	10/11-82-4-6	Five 10 ft. spans on piles.
Creek	S. 26-81-4-6	One 12 ft. span on cribs.
Creek	S. 26-81-4-6	Three 10 ft. spans on piles.
Creek	S. 27-81-4-6	Five 10 ft. spans on piles.
Creek	S. 27-81-4-6	One 12 ft. span on cribs.
Creek	26/27-80-3-6	Two 10 ft. spans on piles.
Creek	21/28-73-10-6	Four 14 ft. spans on piles.
Creek	N. 35-56-3-5	Repairs.
Creek	32/5-56/57-3-5	Reconstruction.
Creek	23/24-6-30-4	Reconstruction.
Coulee	10/15-6-30-4	Reconstruction.
Coulee	S.W. 27-4-30-4	Repairs.
Coulee	S.W. 17-5-28-4	One 20 ft. frame span.
Creek	S.E. 23-6-30-4	Reconstruction.
Creek	S.E. 19-3-29-4	Reconstruction one 16 ft. span
Creek	8/17-42-26-4	Reconstruction.
Creek	N. 36-42-3-5	Two 16 ft. spans on piles.
Creek	N.W. 2-22-9-4	One 20 ft. span on piles.
Creek	11/4-38-28-4	Reflooring bridge.
Creek	12/13-38-3-5	Reconstr. one 18 ft. span on piles.

STREAM	LOCATION	SIZE AND CLASS OF BRIDGE
Creek	8/17-37-26-4	Repairing.
Creek	5/32-38/37-8-5	Three 20 ft. spans on piles.
Creek	16/21-38-26-4	One 16 ft. span on piles.
Clearwater River	9/10-39-7-5	One 30 ft., one 125 ft. span steel, four 20 ft. spans on piles.
Creek	N.E. 15-38-26-4	One 16 ft. frame span.
Creek	19/20-37-26-4	One 16 ft. frame span.
Creek	30/31-38-1-6	One 20 ft. frame span.
Creek	28/29-38-3-5	One 18 ft. frame span.
Creek	21/28-38-3-5	One 18 ft. frame span.
Creek	22/23-38-3-5	One 18 ft. frame span.
Creek	4/5-38-3-5	One 20 ft. frame span.
Creek	7/12-38-2/3-5	One 18 ft. frame span.
Creek	33/34-38-7-5	One 18 ft. span on piles.
Creek	22/23-46-14-4	One 10 ft. span on piles.
Creek	11/14-46-14-4	One 12 ft. span on piles.
Creek	11/12-46-14-4	One 16 ft. span on piles.
Carrot Creek	12/13-54-26-4	Reconstr. one 20 ft. span on piles.
Creek	S. 3-55-2-4	Two 16 ft. spans on abut- ments.
Creek	13/14-36-20-4	One 20 ft. span on posts.
Creek	S.E. 23-36-20-4	One 16 ft. span on posts.
Creek	1/6-36-16/17-4	One 16 ft. frame bent.
Creek	1/16-36-16/17-4	One 16 ft. frame bent.
Creek	N.W. 35-50-1-5	One 18 ft. span on piles.
Creek	W. 6-52-3-5	One 20 ft. span on piles.
Creek	35/36-49-7-5	Two 11 ft. spans on crib abutments.
Creek	S.E. 2-52-3-5	Const. one 8 ft. subway.
Creek	12/13-51-6-5	One 9 ft. span on piles.
Creek	12/13-51-6-5	One 9 ft. span on piles.
Coal Oil Creek	W. 7-51-3-5	Two 18 ft. spans on cribs.
Creek	33/34-52-5-5	Two 16 ft. spans on piles.
Creek	31/36-52-5/6-5	One 16 ft. span on piles.
Creek	33/34-52-5-5	One 16 ft. span on piles.
Creek	35/36-51-36-4	One 16 ft. span on piles.
Creek	22/23-55-22-4	Repairs.
Creek	30/31-64-22-4	Repairs.
Creek	S.E. 24-62-24-4	Repairs.
Creek	N. 22-63-23-4	Three 20 ft. spans on piles.
Coulee	9/16-6-20-4	Repairs.
Creek	35/36-11-17-4	One 18 ft. frame bent.
Creek	19/24-49-14/15-4	Two 16 ft. spans on piles.
Creek	6/31-49/50-12-4	One 16 ft. span on piles.
Creek	7/18-49-16-4	One 16 ft. span on piles.
Creek	W. 7-49-14-4	One 16 ft. span on piles.
Creek	W. 18-49-14-4	One 16 ft. span on piles.
Creek	24/25-49-14-4	One 16 ft. span on piles.
Creek	W. 6-50-14-4	One 16 ft. span on piles.
Creek	9/10-49-17-4	One 16 ft. span on piles.
Creek	S.W. 11-49-16-4	One 16 ft. span on piles.
Creek	33/34-49-16-4	One 16 ft. span on piles.
Coulee	10/15-1-17-4	Constr. two 20 ft. spans on piles.
Creek	N.E. 3-47-23-4	Repairs.
Creek	22/23-46-26-4	Repairs.
Creek	35/36-46-27-4	Reconstructing.
Creek	33/34-46-27-4	One 20 ft. span on piles.
Creek	1/36-45/46-28-4	Reflooring bridge.
Creek	32/33-46-2-5	Repairs.
Creek	Centre of 22-46-2-5	Repairs.
Creek	9/10-47-26-4	One 20 ft. span on piles.
Creek	2/3-46-22-4	Reflooring and handrailing.
Creek	21/22-46-3-5	One 16 ft. frame bent.
Creek	19/20-47-26-4	One 20 ft. span on piles.

STREAM	LOCATION	SIZE AND CLASS OF BRIDGE
Creek	10/11-46-36-4	Reflooring and handrailing.
Creek	26/27-46-3-5	Two 20 ft. pile spans.
Creek	32/33-46-3-5	One 16 ft. span on mud sills.
Creek	13/14-45-26-4	One 16 ft. span on piles.
Creek	15/16-45-26-4	One 18 ft. span on piles.
Creek	29/30-54-13-4	Repairs.
Creek	23/24-54-13-4	Moving bridge.
Creek	9/16-51-21-4	One 16 ft. span on piles.
Draw	3/4-31-4-4	One 16 ft. frame bridge.
Draw	1/12-38-12-4	One 16 ft. frame bridge.
Draw	1/12-38-12-4	One 16 ft. frame bridge.
Dog Pound	N.E. 15-30-3-5	Repairs.
Deep Creek	25/30-74-16/17-5	Three 20 ft. spans on piles.
Deep Creek	23/24-74-17-5	One 20 ft. span on piles.
Ditch	S. 14-22-1-5	Reflooring bridge.
Dog Pound Creek	33/4-32/33-3-5	Repairs.
Dywood Creek	26/27-5-28-4	Repairs.
Dog Rump Creek	3/4-59-7-4	Repairs.
Dog Rump Creek	W. 36-56-7-4	One 18 ft. span abutments.
Draw	32/33-37-19-4	One 16 ft. span on piles.
Ditch	17/18-6-20-4	Repairing bridge.
Deep Creek	5/6-54-21-4	One 20 ft. span on piles.
Deep Creek	11/14-55-21-4	One 16 ft. span on piles.
Deer Creek	S.W. 26-1-12-4	Three 20 ft. spans on piles.
Elbow River	4/5-24-2-5	Trussing up bridge.
Eight Mile Creek	S. 5-49-26-4	Repairs.
Elbow River	N.W. 12-23-5-5	Two 50 ft. trusses of round timber.
Fallen Timber Creek	N. 34-31-5-5	Repairs.
Flat Creek	S.W. 31-66-19-4	Repairs.
Fish Creek	31/5-2/3-26-4	Repairs.
Fish Creek	S.E. 19-2-27-4	Two 20 ft. spans on piles.
Five Mile Creek	In Sec. 15-9-29-4	Repairs.
Fish Creek	E. 4-23-1-5	Repairs.
Fish Creek	E. 1/2 22-22-3-5	Repairs.
Fish Creek	E. 1/4 22-23-3-5	Repairs.
Frog Creek	8/17-50-4-4	Six 16 ft. spans on piles.
Frog Creek	31/6-55/56-3-4	Two 14 ft. spans on piles.
Fleming Creek	N. 36-51-26-4	One 20 ft. span on piles.
Flat Creek	N. 35-64-20-4	Three 18 ft. spans on piles.
Fifteen Mile Creek	S.E. 5-7-19-4	Repairs.
Ghost Pine Creek	20/29-31-22-4	Repairs.
Ghost Pine Creek	N.W. 9-31-22-4	Two 20 ft. spans on piles.
Ghost Pine Creek	2/21-31-22-4	Repairs.
Ghost Pine Creek	5/6-34-23-4	Repairs.
Grimlet Creek	6/31-41-42-4-5	Repairs to approaches.
Grizzly Bear Coulee	S.E. 28-49-6-4	One 16 ft. span on piles.
Hastings Creek	30/31-51-20-4	One 20 ft. span on piles.
Hastings Creek	S.W. 22-51-20-4	Five 20 ft. spans on piles.
High River		Repairing intake ditch to Little Bow River.
Highwood River	In Sec. 8-20-28-4	175 ft. span steel on concrete abutments.
Horseguard Creek	14/15-39-5-5	Driving piles.
Halfway Creek	26/35-54-23-4	One 16 ft. reinforced concrete slab span.
Horsehill Creek	S.W. 8-54-23-4	One 16 ft. reinforced concrete slab span.
Irrigation Ditch	S.E. 31-18-14-4	One 20 ft. frame bridge.
Irrigation Canal	13/18-9-20/21-4	One 18 ft. frame bridge.
Irrigation Canal	Centre S. 1/2 32-6-19-4	One 20 ft. frame bridge.
Irrigation Ditch	N.E. 25-9-20-4	One 22 ft. frame bridge.
Iron Creek	N. 16-43-9-4	Three 20 ft. spans on piles.
Jones Creek	4/32-38/39-25-4	Repairs.
James River	S.W. 14-34-5-5	Repairs.
Jackfish Creek	Bet. 1/2-63-5-4	One 18 ft. span on abutments.
Jackfish Creek	N. 33-51-2-5	One 20 ft. span on piles.

STREAM	LOCATION	SIZE AND CLASS OF BRIDGE
Jackfish Creek	N. 32-51-2-5	One 20 ft. span on piles.
Knee Hill Creek	N.W. 14-29-23-4	Three 20 ft. spans on piling.
Knee Hill Creek	N.E. 15-29-23-4	Repairs.
Knee Hill Creek	S.W. 13-29-23-4	Repairs.
Knee Hill Creek	N.W. 17-29-23-4	Repairs.
Knee Hill Creek	W. 15-29-23-4	Repairs.
Knee Hill Creek	24/25-34-27-4	Two 20 ft. spans on piles.
Klapp Coulee	25/26-5-20-4	Two 20 ft. spans on piles.
Little Beaver River	In Sec. 20-63-12-4	Repairs.
Little Beaver River	S.W. 12-64-13-4	Repairs.
Little Red Deer River	S. ½ 29-29-5-5	Construction pole bridge.
Lonepine Creek	7/12-31-26/27-4	Three 20 ft. spans on piles.
Lost Creek	22/23-55-14-5	Repairs to bridge.
Lesser Slave Lake	Narrows	Maintenance.
Lesser Slave River	Sec. 7-73-5-5	One 40 ft. pontoon, eight 20 ft. spans and one 15 ft. span on piles.
Lobstick Creek	25/30-40-5/6-5	Two 20 ft. spans on piles.
Lobstick Creek	3/4-40-5/6-5	Two 18 ft. spans on piles.
Lobstick Creek	19/30-40-5-5	Two 20 ft. spans on piles.
Lobstick Creek	N. 35-40-6-5	Two 16 ft. spans on piles.
Lobstick River	N.E. 30-53-7-5	Grading approaches.
Little Sucker Creek	N. 36-59-22-4	Three 18 ft. spans on piles.
Little Paddle River	28/30-87-7/8-5	Three 20 ft. spans on piles.
Little Whitemud Creek	30/31-49-25-4	One 18 ft., two 14 ft. spans on piles.
Little Bow	S.E. 5-15-21-4	Two 20 ft. spans on piles.
Little Pelgan Creek	15/16-7-5-4	One 20 ft. span on piles.
Lost River Creek	1/5-4-6/7-4	One 16 ft. span on piles.
Little Bow River	N. 31-16-26-4	Repairs.
Little Bow River	11/14-14-25-4	Reflooring.
Little Bow River	27/28-14-25-4	One 40 ft. truss, and two 20 ft. spans on piles.
Little Red Deer River	N.E. 32-34-2-5	Repairs.
Little Red Deer River	S.E. 16-33-3-5	Repairs.
Little Red Deer River	34/5-33/34-2-5	Repairs.
Little Burnt River	N.E. 11-81-2-6	Four 10 ft. spans on piles.
Little Burnt River	S. 1-82-2-6	Two 10 ft. spans on piles.
Lobstick Creek	26-39-5-5	Repairs.
Lobstick Creek	S.E. 26-39-5-5	Two 20 ft. spans on piles.
Little Bow River	S.W. 5-15-21-4	Reflooring bridge.
Milk River	In Sec. 1-2-22-4	One 80 ft. steel span on piles.
Middle Coulee	11/12-5-20-4	One 20 ft. span on piles.
Mud Creek	N.E. 13-75-15-5	Five 18 ft. spans on piles.
Michiche Creek	S.E. 1-31-19-4	One 18 ft. span on piles.
Michiche Creek	S.E. 18-31-19-4	One 16 ft. span on piles.
Michiche Creek	N.W. 21-31-19-4	One 18 ft. span on piles.
Michiche Creek	7/12-31-19/20-4	One 18 ft. span on piles.
Michiche Creek	9/16-30-19-4	One 16 ft. span on piles.
Medicine River	Centre of E. ½ 26-36-2-5	Repairs.
Mosquito Creek	29/30-16-28-4	Repairs.
Medicine River	9/10-42-4-5	Three 20 ft. spans on piles.
Medicine River	21/28-39-3-5	One 50 ft. truss refloored.
Michiche Creek	7/18-30-19-4	One 20 ft. span on piles.
Manyberry Creek	31/36-4-6/7-4	Two 20 ft. spans on piles.
Mink Creek	10/15-53-3-5	One 20 ft. span on piles.
Mink Creek	34/35-52-3-5	One 20 ft. span on piles.
Muskeg Creek	N.W. 36-65-23-4	Driving piles.
Milk River	S.W. 6-4-21-4	One 16 ft. span on piles.
Meeting Creek	S.E. 29-41-17-4	Repairs.
Nose Creek	11/12-26-2-5	Repairs.
Narrows of Baxter Lake	S. ½ 30-45-5-4	Five 20 ft. spans on piles.
N. Heart River	Sec. 29-83-21-5	One 80 ft. steel span.
N. Sask. River	At Fort Saskatchewan	Reconstruction of traffic deck and approaches.
Old Man Creek	Sec. 18-73-11-5	One 20 ft. span on piles.
Old Man River	S.W. 10-9-26-4	Repairs.

STREAM	LOCATION	SIZE AND CLASS OF BRIDGE
Old Man River	S.W. 17-7-28-4	Repairs.
Old Man River	N.E. 36-7-4-5	Reflooring.
Old Man River	Centre 36-7-4-5	Reflooring.
Old Man River	S.E. 3-81-4-5	Repairs.
Old Man River	N.W. 26-7-2-5	Reflooring.
Old Man River	N.E. 12-10-17-4	Reflooring approach to steel bridge.
Old Man River	N.W. 1-9-22-4	Repairs.
Pine Creek	45-67-19-4	One 30 ft. truss on piles.
Pothole Creek	N.E. 25-3-22-4	Grading approaches.
Prairie Creek	N.E. 31-50-25-5	One 24 ft. span on abutments.
Prairie Creek	N.E. 31-30-25-5	Two 17 ft. spans on abutments.
Prairie River	N.W. 11-74-16-5	Repairs.
Peavine Creek	8/9-77-21-5	Three 20 ft. frame spans.
Peavine Creek	35/36-77-21-5	One 20 ft. span on piles.
Paddle River	S.W. 31-57-8-5	Three 20 ft. spans on piles.
Pipestone Creek	29/32-47-24-4	Reconstruction.
Pine Creek	N.E. 11-22-1-5	Reflooring.
Paddle River	S.W. 15-59-3-5	Repairs.
Pembina River	S.W. 11-58-3-5	Repairs.
Paddle River	13/14-59-3-5	Repairs.
Pincher Creek	7-7-28-4	One 80 ft. steel span on concrete.
Prairie Creek	7/18-38-8-5	Three 20 ft. spans on piles.
Prairie Creek	15/16-38-7-5	One 60 ft. truss span on piles.
Pine Creek	3/34-64/65-21-4	Repairs.
Point aux Pines Creek	13/14-54-23-4	Three 20 ft. pile spans.
Pipestone Creek	N. of N.W. 26-46-23-4	Repairs.
Pipestone Creek	W. 19-47-24-4	Repairs.
Pigeon Creek	N.W. 5-45-27-4	Repairs.
Pipestone Creek	S.E. 21-47-26-4	One 20 ft. span on piles.
Pigeon Lake Creek	1/2 46-28-4	Reconstruction.
Pigeon Lake Creek	N. 1/2 29-46-25-4	Reflooring bridge.
Pipestone Creek	13/14-47-27-4	One 20 ft. span on piles.
Pipestone Creek	S.W. 19-46-22-4	Three 20 ft. spans on piles.
Pipestone Creek	10/15-47-26-4	Two 20 ft. spans on piles.
Plain Creek	22/27-59-13-4	One 14 ft. span on piles.
Pakwaw Creek	16/17-36-27-4	One 20 ft. span on piles.
Ravine	S.W. 2-69-23-4	Repairs.
Ravine	28/29-66-22-4	Repairs.
Rosebud Creek	Sec. 7-27-21-4	Three 20 ft. spans on piles.
Rosebud River	S.W. 29-27-20-4	Three 20 ft. spans on piles.
Red Deer River	36-33-5-5	Protection of banks on Red Deer River.
Rosebud Creek	5/32-28/29-27-4	Repairs.
Ravine	22/23-51-25-4	Repairs to bridge.
Rosebud Creek	19/16-28-22-4	Reconstruction.
Red Deer River	N.E. 6-36-28-4	Repairs.
Red Deer River	N.E. 8-35-3-5	Repairs.
Raven River	W. 31-35-3-5	Repairs.
Red Deer River	5/32-36/37-28-4	Repairs.
Raven River	15/16-36-4-5	Two 16 ft. and one 20 ft. spans on piles.
Rainy Creek	23-24-40-2-5	One 16 ft. span on piles.
Rainy Creek	E. 12-40-2-5	One 16 ft. frame bent.
Ross Creek	N.E. 36-11-3-4	Repairs.
Red Deer River	36-33-5-5	Protection of banks.
Red Deer River	34/33-2/33-5-5	Protection of banks.
Red Deer River	N. 36-33-5-5	Repairs.
Red Deer River	3/34-32/33-5-5	Reconstruction of two 125 ft. and one 80 ft. steel spans on concrete.
Red Deer River	S.W. 21-38-27-4	Repairs.
Red Deer River	S.W. 33-38-22-4	Removing debris from steel bridge.
Ribstone Creek	N.W. 31-38-7-4	Two 20 ft. spans on piles.
Ribstone Creek	N.W. 31-39-6-4	Two 20 ft. spans on piles.

STREAM	LOCATION	SIZE AND CLASS OF BRIDGE
Ross Lake Narrows	S.E. 1-38-20-4	Repairs.
Red Willow Creek	25/30-39-18/19-4	Two 16 ft. spans on piles.
Red Willow Creek	16/17-40-16-4	One 20 ft. span on piles.
Red Willow Creek	25/26-39-19-4	One 16 ft. span on piles.
Red Willow Creek	20/21-39-19-4	One 16 ft. span on piles.
Red Willow Creek	19/20-39-19-4	One 16 ft. span on piles.
Red Willow Creek	31/32-38-21-4	One 16 ft. span on piles.
Red Willow Creek	12/13-39-19-4	One 16 ft. span on piles.
Red Willow Creek	13/24-39-19-4	Two 16 ft. spans on piles.
Red Water Creek	5/6-59-24-4	Repairs.
Ross Creek	Sec. 32-54-22-4	Repairs.
Ross Creek	4/33-53/54-21-4	One 20 ft. span on piles.
Ross Creek	5/32-53/54-21-4	One 16 ft. span on piles.
Red Creek	12/13-1-16-4	Two 20 ft. spans on piles.
Red Creek	8/9-1-17-4	One 16 ft. span on piles.
Rodberg Creek	23/24-46-23-4	Repairs to floor.
Sounding Creek	In S.W. 19-30-4-4	Repairs.
Sounding Creek	In S.E. 14-30-6-4	One 18 ft. span on piles.
Sounding Creek	17/18-30-3-4	One 12 ft. span on piles.
Seven Creek	Sec. 7-27-21-4	One 20 ft. span on piles.
Stony Creek	S. 2-47-20-4	Two 20 ft. spans on piles.
Spring Coulee	29-4-23-4	Repairs.
Snake Creek	S.W. 23-2-25-4	Repairs.
Snake Creek	6/31-1/2-25-4	Grading.
Short Creek	22/23-61-2-5	Repairs.
Sounding Creek	13/14-33-7-4	One 16 ft. frame bent.
Sounding Creek	5/6-35-4-4	One 18 ft. span on piles.
Shiningbank Creek	N. 1/2 23-56-15-5	Three 25 ft. spans on cribs.
Sundance Creek	9/16-53-19-5	One 30 ft. span on abutments.
Spencer Creek	N. 34-56-14-5	Three 14 ft. spans on abutments.
Sucker Creek	N.E. 26-40-28-4	One 20 ft. span on piles.
Subway	S.W. 17-41-1-5	One 16 ft. subway.
Strawberry Creek	29/32-47-24-4	Reconstruction.
Spring Coulee	4/5-20-1-5	One 20 ft. span on piles.
Spring Coulee	18/19-20-1-5	Reconstruction.
Spirit River	Lot 41, Spirit Riv. Set.	Repairs.
Strong Creek	Sec. 5-83-22-5	Construction.
Swamp Creek	10/11-78-5-6	One 20 ft. span on abutments.
Subway	N.W. 19-5-28-4	Subway.
Sturgeon River	10/15-55-26-4	One 10 ft. span on piles.
Sturgeon River	20/29-54-26-4	Clearing away drift from bridge.
Sturgeon River	16-54-26-4	One 50 ft. truss on piles.
Sturgeon River	N.E. 23-54-25-4	One 60 ft. steel, two 20 ft. pile spans.
Sturgeon River	3/33-55-54-27-4	Three 20 ft. spans on piles.
Subway	N.W. 31-43-4-4	Grading approaches to subway.
Strong Creek	21/22-59-13-4	Two 14 ft. spans on piles.
Strong Creek	N. of N.W. 35-58-13-4	Two 18 ft. spans on piles.
Strong Creek	23/26-59-14-4	Two 14 ft. spans on piles.
Sucker Creek	N.E. 23-58-20-4	Maintenance.
Tawatinaw River	At Athabasca	Five 20 ft. spans on piles.
Trout Creek	7/12-12-27/28-4	Reflooring.
Three Hill Creek	N.E. 15-30-23-4	Repairs.
Three Hill Creek	21/22-30-23-4	Repairs.
Tongue Creek	S.W. 16-19-1-5	Repairs.
Three Hill Creek	6/36-35/34-25/26-4	Two 20 ft. spans on piles.
Three Hill Creek	S.E. 21-35-26-4	One 20 ft. span on piles.
Trail Creek	5/32-34/33-2-5	Repairs.
Trail Creek	2/34-38/39-22-4	Repairs.
Tomahawk Creek	13/14-51-6-5	One 20 ft., two 16 ft. spans on piles.
Tomahawk Creek	S.E. 22-51-6-5	Two 18 ft. spans on piles.
Tawatinaw River	5/6-61-24-4	Three 20 ft. spans on piles.
Tawatinaw River	12/13-62-24-4	Construction of culverts.

STREAM	LOCATION	SIZE AND CLASS OF BRIDGE
Tawatinaw River	10/15-65-22-4	Reconstruction.
Trapper Creek	21/22-40-7-4	One 20 ft. span on piles.
Vermilion River	25/26-51-3-4	Repairs.
Vermilion River	11-54-3-4	Repairs.
Vermilion Creek	8/17-58-26-4	One 20 ft. span on piles.
Vermilion River	W. ½ 17-52-14-4	Repairs.
Vermilion River	36/1-51/52-15-4	Reconstruction.
Vermilion River	14/15-53-14-4	Repairing bridge.
Vermilion River	N. 30-52-14-4	Repairs.
Vermilion River	10/15-53-14-4	Repairs.
Vermilion River	20/21-49-14-4	One 16 ft. span on piles.
Vermilion River	13/18-54-13/14-4	Three 20 ft. spans on piles.
Willow Creek	6/36-10/11-26/27-4	Repairing floor.
Waterway	W. 6-37-10-4	One 16 ft. span on mud sills.
Waterway	W. 19-37-10-4	One 16 ft. span on mud sills.
Whitemud River	24/25-51-25-4	Repairs.
White Creek	N. 32-56-14-5	Three 14 ft. spans on abutments.
West Prairie River ...	Centre W. ½ 14-74-17-5	Five 18 ft. spans on piles.
Wolf Creek	1/36-31/32-16-4	Repairs.
Wolf Creek	4/5-32-15-4	Repairs.
Wolf Creek	3/34-31/32-16-4	Two 16 ft. spans on piles.
Wolf Creek	E. 12-41-27-4	Reconstruction.
Waskasso Creek	E. 6-38-27-4	Reflooring.
Waskatenau River ...	S. 18-60-19-4	Two 16 ft. spans on piles.
Waskivei Creek	33/34-51-15-4	Repairs.
Waskivei Creek	32/33-51-15-4	Repairs.
Wabamun Creek	N.W. 3-52-3-5	Two 20 ft. spans on piles.
Yelling Creek	S.W. 12-60-8-4	Repairs.

FERRIES

The total number of ferries operated by this department in 1915 was 65.

There were 3 ferries operated by the public, as follows:

1. On the Old Man River north of Purple Springs.
2. On the Old Man River near Grand Forks.
3. On the Bow River south of Bassano.

making 68 Government-owned ferries in the Province.

New ferries were built and installed on the following locations:

1. Macleod River at Whitecourt.
2. Smoky River west of McLennan.
3. Pembina River at Eunice.
4. Smoky River at Bezanson.

New scows were built for use at the following ferries:

1. North Saskatchewan River at Brosseau.
2. Athabasca River at Holmes' Crossing.
3. Red Deer River at Trochu.
4. North Saskatchewan River at Lea Park.
5. Bow River at River Bow.
6. Old Man River north of Purple Springs.

Considerable damage to the ferries was done by the floods, and as a result of this, and from other causes, the following ferries discontinued operation:

1. Red Deer River at Steerford.
2. North Saskatchewan River at Big Island.
3. Pembina River at Pembina.
4. Lesser Slave River at Sawridge.

The following is a complete list of the ferries in the Province at the close of 1915:

1. North Saskatchewan River at Brosseau.
2. North Saskatchewan River at Desjarlais.
3. Athabasca River at Holmes' Crossing.
4. Bow River south of Cluny.
5. Red Deer River at Dorothy.
6. Old Man River at Summerview.
7. North Saskatchewan at Victoria.
8. Red Deer River at Garrington.
9. North Saskatchewan River at Fourth Meridian.
10. Athabasca River at Athabasca Landing.
11. Red Deer River at Trochu.
12. North Saskatchewan River at Shandro.
13. Pembina River at Wild Horse.
14. North Saskatchewan River at Hopkins' Crossing.
15. Red Deer River at Fieldholm.
16. North Saskatchewan River at Rocky Mountain House.
17. Peace River at Peace River Crossing.
18. Lac Ste. Anne at the Narrows.
19. North Saskatchewan north of Kitscoty.
20. North Saskatchewan north of Lamont.
21. Pembina River at Sunniebend.

22. Pembina River at 26-56-7-5.
23. North Saskatchewan River at Lamora's Landing.
24. Bow River south of Strathmore.
25. Peace River at Dunvegan.
26. North Saskatchewan north of Manville.
27. South Saskatchewan River at Bow Island.
28. Pembina River at Entwistle.
29. Red Deer River at Carbon.
30. Red Deer River at Steeveville.
31. Big Smoky River on the Edson Trail.
32. Bow River at 27/28-15-16-4.
33. Beaver River at Cold Lake.
34. Old Man River north of Purple Springs.
35. Bow River at Rocky Buttes.
36. Red Deer River west of Munson.
37. Red Deer River at Finnegan's Crossing.
38. Pembina River at Matthews' Crossing.
39. North Saskatchewan River at Moose Telegraph Station.
40. Pembina River at Lunnford.
41. Old Man River near Grand Forks.
42. Baptiste River on Edson Trail.
43. Little Smoky River on Edson Trail.
44. Bow River at Eyremore.
45. Macleod River north of Thornton.
46. Macleod River at Whitecourt.
47. Red Deer River at Dead Lodge Canyon.
48. Bow River at Kinnondale.
49. Beaver River at Tp. 63-4/5-4.
50. North Saskatchewan River north of Bruderheim.
51. Pembina River west of Hazelbluff.
52. Pembina River at Manola.
53. Macleod River north of Peers.
54. Red Deer River north of Jenner.
55. Red Deer River at Gregory's Ford.
56. North Saskatchewan River at Elk Point.
57. Red Deer River at Emerson's Ford.
58. Red Deer River at Empress.
59. Pembina River at Cosmo.
60. Red Deer River west of Morrin.
61. Pembina River at Eunice.
62. Macleod River north of Rosevear.
63. Athabasca River at Hinton.
64. Red Deer River north of Buffalo.
65. Bow River south of Bassano.
66. North Saskatchewan at Heinsburg.
67. Big Smoky River west of McLennan.
68. Athabasca River on Edson Trail.

ORDINARY ROADS, 1915

East of 2 to 35-23/24-3-4. Culverts and grading.
 East of 5 to 32-26/28-6-4. Plowing and discing.
 Between 20/21-30-8-4. Grading.
 Between 3/4, 9/10, 33/34, 28/29-3-5. Improving roads.
 Between 22/27, 27-9-4. Grading.
 Through Sec. 9-22-9-4. Grading.
 East of 25 and 36, 23 to 26-5/6-4. Grading.
 Between 10/15-25-29-4. Grading.
 Between 4/5-25-28-4. Grading.
 Between 8/9, 20/21, 16/17, and 24/25-26-7-4. Grading.
 East 4 to 33-25/26-2-4. Culverts and grading.
 East 16 to 33-23-1-4. Culverts and grading.
 East of 6 to 31-24 to 26-3-4. Grading.
 East of 4 to 33-26-3-4. Grading.
 Between 10/11, 13/14-22-6-4. Grading.
 Between 4/5-30-2-4. Improving road.

North of Kitscoty. Grading and culverts.
 Between 4/5 to 32/33-52/53-4-4. Grading and culverts.
 Between 7/12-51-1-4. Grading and culverts.
 Between 3/34-47/48-1-4. Grading and culverts.
 Between 23/24 and 25/26-53-5-4. Grading.
 Between 3/4-54-2-4. Grading.
 Between 16/17-52-3-4. Grading and culverts.
 Sec. 12-67-22-4. Draining Gagnon's Lake. Grading and culverts.
 Between Tps. 66/67, 20-21-4. Grading.
 N. 11 and W. 13 to 24-68-22-4. Grading.
 Between 4/5, 8/9-67-22-4. Grading and culverts.
 Between 13/14-66-24-4. Corduroy and clearing.
 East of 17, 20, 29-67-21-4. Grading and culverts.
 Around Baptiste Lake 66/67-24-4. Grading and culverts.
 North of 7 to 12-67-21-4. Grading and culverts.
 East of 25 and 36-66-24-4, east of 5 to 31-37-23-4. Grading and culverts.
 Between Boyne Lake and Ashmont, in Tps. 59/60-11-4. Grading.
 Secs. 10 to 36-60/61-10-4. Grading.
 Secs. 10 to 34, 58/59-11-4. Grading.
 East 4, 9 and 17-50-17-4. Grading.
 Between 9/10-68-16-4. Grading.
 North of 25/26-59-12-4. Grading.
 North of 31-59-9-4. Grading.
 South 4, 5, 6-60-15-4. Grading.
 Between 3/4-60-16-4. Grading.
 East of 15/22 and 27/34, North 32 to 34-59-11-4. Grading.
 Between St. Lena and Grandin. Grading.
 Between 1/12, 6/7-62-10/11-4. Grading.
 Between 34/35-66/67-16-4. Grading.
 Between 33/34 to connect with North 12-64/65-12/13-4. Grading.
 Between 12/13-60-10-4. Grading.
 Between 23/26-67-16-4. Grading.
 Sec. 12-66-15-4. Grading.
 Between 9/16, 10/15, 61-10-4. Grading.
 North 4 and 5-58-10-4. Grading.
 Between 20/29-22-21-4. Grading.
 South 3, 4, 5-22/23-30-4. Grading and culverts.
 Between 10/15-19-20-4. Grading and culverts.
 Between 25/26, 30/31-21-20/21-4. Grading and culverts.
 Between 29/30, 31/32-19-20-4. Grading and culverts.
 North 9-22-21-4. Grading.
 On 36-28-20-4. Grading.
 Between 27/28-22-21-4. Grading and culverts.
 Between 32/33-22-21-4. Grading and culverts.
 Between 8/9-20-21-4. Grading.
 Between 7/8, 1/14-25-15/16-4. Grading and culverts.
 Between 9/16-21-18-4. Grading and repairing culvert.
 Between 35/36-21-20-4. Grading.
 North of Brooks to Duchess and Ferry. Grading and culverts.
 Between 9/10-23-21-4. Grading and culverts.
 Between Brooks and Tilley. Grading, culverts and clearing.
 North of 19 to 24 Tp. 18-12/13-4. Grading and culverts.
 Between Bassano and Brooks. Grading and culverts.
 East of 2/11-23-21-4. Grading.
 Between 17/18-23-19-4. Grading.
 Between 19/30-21-18-4. Grading.
 South of Cluny to Ferry. Grading and culverts.
 Between 1/2, 11/12-26-2-5. Grading.
 Between 31/26-25-2/3-5. Grading.
 West 15, 22, 27-25-2-5. Grading and repairing culverts.
 From Sprucevale Trail to Camp at Sarcee I. R.
 Between 1/2-24-2-5. Grading and culverts.
 Between 29/30-48-21-4. Grading and culverts.
 Between 31/32-46-19-4. Grading.
 Between 27/28-47-20-4. Grading.
 South 5-45-20-4. Grading.
 West 1 to 36-48-21-4. Grading.
 Between 29/30-45-17-4. Grading.
 Between 28/29-48-18-4. Grading and repairing culvert.
 Between 1/2-11/12-43-20-4. Grading and repairing culvert.
 West 19-43-19-4. Grading.

Between 17/18-2-27-4. Grading.
 Between 11/12, 25/30-1/2-25-4. Grading.
 Cardston to Leavitt. Grading and culverts.
 Sec. 36-2-26-4. Grading and culverts.
 Sec. 21-2-25-4. Grading.
 Between 19/20-3-24-4. Grading.
 Between 21/28, 22/27-5-22-4. Grading.
 Between 32/5, 1/2-25-4. Grading.
 Between 8/17-3-24-4. Grading.
 Between 3/4, 9/10-3-24-4. Grading and culverts.
 Sec. 12-3-28-4. Culvert.
 Between 22/23, 26/27-2-25-4. Grading and repairing culvert.
 Between 35/36, 26/35, 4/5-22-4. Grading and culvert.
 Between 4/5-4-24-4. Grading and culvert.
 Between 35/36, 3-25-4. Repairing culvert.
 Between 3/33, 2/3-25-4. Grading and culverts.
 Between 3/4-3-25-4. Grading and culverts.
 Between 24/25-5-22-4. Grading and culverts.
 Between 3/4, 9/10-4-24-4. Grading.
 Between 4/5, 32/33, 3/4-24-4. Grading and culverts.
 Between 11/12-1-25-4. Grading and culverts.
 Between 25/30-1-25-4. Grading and culverts.
 Between 24/25, 23/26-5-20-4. Grading and culverts.
 Sec. 18-2-26-4. Grading.
 East 29-2-25-4. Destroying weeds, grading and culverts.
 Between 27/34-5-22-4. Grading.
 Between 21/28-5-19-4. Grading.
 Between 7/18-5-22-4. Grading and culverts.
 Between 2/3, 34/35-5-22-4. Grading.
 Between 21/22, 27/28-5-22-4. Grading.
 Between 16/17, 20/21, 32/33-4-23-4. Grading.
 Between 10/15, 11/14-5-21-4. Grading.
 Between 12/18, 14/19-5-20/21-4. Grading and culverts.
 Between 3/4, 33/34, 27/28-1/2-24-4. Grading and culverts.
 Between 8/19, 17-18, etc., 5/6-20-4. Grading and culverts.
 Between 20/21-24-4. Grading and culverts.
 Between 17/18, 19/20-5-20-4. Grading and culverts.
 Between 16/17, 20/21-5-22-4. Grading and culverts.
 Between 25/26-5-21-4. Grading and culverts.
 Between 27/28, 33/34-4-23-4. Grading and culverts.
 Between 25/26, 35/36-5-20-4. Grading and culverts.
 Between 33/34-4-23-4. Grading.
 East and west of Claresholm. Grading and cleaning culverts and
 culverts.
 Between 1/6-11-28/29-4. Grading.
 Through 7, 18, 19-9-28-4. Grading and culverts.
 East of 5 to 32-60-3-5. Corduroying.
 Between 14/15, 22/23-28-4-5. Grading.
 N.W. 1/4-2-28-4-5. Grading.
 Between 24/25-27-2-4. Grading.
 Between 26/27-28/29, 4/5-5. Grading.
 Between 7/18-27-4-5. Grading.
 Between 22/23-26-4-5. Grading and culverts.
 Between 9/16-25-5-5. Grading.
 Between 30/31-28-2-5. Grading.
 Sec. 25 to 30-28-3, 4, 5-5. Clearing, grading and culverts.
 Between 3/4, 33/34, 24/25-4-5. Grading and culverts.
 Sec. 32-29-5-5. Grading.
 Sec. 20 to 29-27-2-5. Grading mud holes.
 Between 31/36-26-4/5-5. Culverts, grading and ditching.
 Sec. 2-27-5-5. Repairing washout.
 Trail leading to Mitford. Culverts, grading, repairing culverts
 Trail up Bill Hill Creek. Culverts, grading, ditching.
 Between 29/32-25-3-5. Culverts, grading, clearing.
 Between 1/6-27-1/2-5. Culverts, grading.
 Between 1/2-39-12-4. Grading, ditching, culverts.
 West of Bulwark. Grading.
 Between 15/16-35-4-4. Grading and culverts.
 North of 34-5-4. Grading.
 Between 28/29-34-7-4. Grading.
 North 39-1, 2, 3-4. Grading.

Between 9/16, etc., 35-8-4. Grading and repairing culverts.
 North of 9 to 12-35-4-4. Grading and culverts.
 Between 20/29-33-1-4. Grading.
 Between 32/33-35-6-4. Repairs.
 Sec. 25-35-9-4. Grading and culverts.
 Between 33/34-3-4. Repairs.
 East of 6 and 7-33-3-4. Repairs.
 West of 3 to 34-34-5-4. Repairs.
 Sec. 1 and 2-35-4-4. Grading and culverts.
 East of 6 and 7-35-8-4. Grading and culverts.
 Between 7/8-29-28-4. Grading and culverts.
 Sec. 15-30-8-5. Grading and repairing culverts.
 Between 7/12-29-28/29-4. Grading.
 S.E. of 1/4-1-52-25-4. Repairing road.
 Sec. 35-50-22-4. Grading and culverts repaired.
 Between 3/4-51-24-4. Grading and making fill.
 Between 15/16, 21/22-51-25-4. Grading and making fill.
 North of Nitron. Grubbing, clearing, grading.
 West of 10-54-17-5. Grading.
 Between 23/26. 24/25-53-12/14-5. Grading, ditching, corduroying, bush-
 ing, culverts.
 Secs. 31 to 36-56-13/14-5. Grading, ditching, culverts.
 West of Edson. Corduroying, covering, clearing, grading, ditching,
 culverts.
 Secs. 21, 28, 33-54/55-15-5. Clearing, grading, culverts.
 Between 24/25-53-17-5. Grading, clearing, ditching, corduroying, cul-
 verts.
 Between 1/6 to 31/36-55/56-15/16-5. Clearing grubbing, stumping,
 corduroying, culverts, grading.
 Between 4/5, 30/31-40-7-5. Grading culverts.
 Between 25/26, 35/36-53-16-5. Grading, culverts, ditching.
 Between 15/16-54-16-4. Culverts, grubbing, clearing, heavy grading,
 ditching.
 Sec. 30-39-8-5. Grading, clearing.
 South-west of Hinton in Tps. 50 and 51-25-5. Grading ditching.
 West of 5-24-22-4. Grading, culverts.
 East of 12-23-23-4. Grading and culverts.
 Blackfoot I. R. Repairs to approaches to bridge.
 Sec. 16-23-28-4. Grading and culverts.
 North of 32-22-22-4. Grading and culverts, moving fences filling sloughs
 Between 3/4-32/33-22/23-22-4. Grading.
 Between 31/32-24-23-4. Grading and culverts.
 Between 5/32-27/28-24-4. Grading and culverts.
 Between Tps. 24/25-22/23-4. Grading, culverts and filling.
 Between 14/15 and 22/23-22-22-4. Weeds destroyed, grading, culverts.
 Between 13/18-28/29-27/28-4. Grading, ditching.
 Between 19/24, 13/18-28-24/25-4. Grading and culverts.
 Between 3/4, 9/10-28-22-4. Grading and culverts.
 Wabasca to Lesser Slave Lake. Clearing, grubbing, grading, brush laid.
 Between 1/6, 12/7-72/23-5/6-5. Grading, culverts.
 Between 19/24-77-1-5. Clearing, brushing, corduroying.
 West of 15, 22, 27-77-19-5. Grading.
 Between 3/34-77/78-21-5. Clearing, grubbing, grading.
 Between 34/36-77-21-5. Clearing, grubbing, grading.
 Between 19/21-77-21-5. Clearing, grubbing, grading.
 Between 20/21-77-21-5. Clearing, grubbing, grading.
 Sec. 21-78-21-5. Clearing, grubbing, grading.
 Sec. 10-78-21-5. Clearing, draining, brushing, corduroying.
 Sec. 14 to S.W. corner Sec. 2-78-21-5. Grading, clearing, corduroying,
 brushing.
 North of 21 and 22-80-19-5. Clearing, corduroying, grading.
 East of 18, 19 and 30-77-19-5. Clearing, brushing and corduroying.
 Through 3, 4, 9-34-74-13-5. Cutting new road 30 feet wide.
 West of 6 and 7-74-9-5. Grading, clearing and grubbing.
 Between 25/30-74-16/17-5. Grading, clearing.
 Surveyed trail in Tp. 28-18/19-4. Cutting down hill, grading sloughs,
 culverts, repairs.
 Between 23/26-31-17-4. Grading, repairing culverts.
 Between 33/34-30-12/14-4. Draining sloughs.
 Sec. 4-22-13-4. Grading.
 West of 2 to 35-30-17-4. Grading and culverts.

Between 15/16-31-14-4. Repairs to road.
 Between 20/21-18-2-5. Grading and culverts.
 North of 13/14, 17/18-18-1/2-5. Grading culverts.
 Sec. 5-3-16-29-4. Dragging.
 Between 19-24-18-1/2-5. Grading and culverts.
 Sec. 35-35-3-5. Grading.
 Between 31/32-34-26-4. Grading.
 Between 25/30-35-27/28-4. Grading.
 Between 3/4-37-2-5. Grading.
 Between 5/32, 4/33, 3/34, 2/35-36/37-28-4. Filling and repairing grades.
 East of 35-35-3-5. Grading, culverts.
 Between 12/13-41-27-4. Grading and culverts.
 Between 26/27-39-25-4. Corduroying, fixing sloughs, clearing, ditching.
 grading.
 Between 29/30-41-2-4. Grading, ditching.
 Between 23/26-39-23-4. Grading.
 Between 3/4-41-22-4. Grading and culverts.
 East and west of Medicine Valley. Grading.
 Between 8/9-40-27-4. Grading and ditching.
 Between Tps. 40/41-22-4. Grading, culverts, brushing, filling sloughs.
 Between 21/22-39-23-4. Grading and culverts.
 Between 2/11-41-27-4. Grading.
 Between 28/29-39-28-4. Grading and culverts.
 Lac Ste. Anne to Wabamun. Repairing culverts.
 North-east of Entwistle to Ferry. Grading.
 Lac Ste. Anne to Entwistle. Corduroying, brushing, covering, grading.
 In 25, 26, 35, 36-56-5-5. Culvert, clearing.
 East of 1 and 12-55-5-5. Corduroying, clearing, grading.
 North of 13/14-53-6-5. Grading.
 North of 7, 8 and 9-55-3-5. Grading, ditches, culverts, covering, corduroying.
 Between 3 and 4-56-4-5. Corduroying, clearing, grading.
 East of 7, 18, 19-54-5-5. Grading, corduroying, culverts, ditching.
 Between Sangudo and Peavine. Corduroying and brushing.
 East of Green Court. Grading, covering corduroy, culverts.
 North of Cherhill Siding. Grading, covering corduroy, culverts.
 Between 6/31, 5/32-59-11-4. Grading, clearing, grubbing.
 East of 1/2-24-54-4-5. Grading, clearing, grubbing.
 Between 31 to 36-57-7-5. Grading, clearing, grubbing, corduroying.
 West of Rochfort. Grading, clearing, culverts.
 South and west of White Court. Grading, corduroy, grubbing, ploughing.
 South of Sangudo. Grading, ditching, clearing, grubbing.
 Between 1/2-55-2-5. Grading, ditching.
 Between 14/15-53-6-5. Clearing, grubbing, grading.
 South of White Court. Grading.
 Sec. 31-47-26-4. Grading.
 North of Tps. 47/48-25 to 28-4. Grading, ditching, corduroy, culverts.
 Between 35/36-49-28-4. Grading, ditching, corduroy, culverts.
 Sec. 18-48-23-4. Grading and repairing.
 Sec. 34-49-25-4. Grading.
 East 11 to 26-50-24-4. Grading.
 Between 11/12-50-26-4. Ditching, grading, culverts.
 Between 16-17-48-24-4. Grading, ditching, culverts.
 Between 3/4-50-25-4. Grading.
 Between 6/7-48-26-4. Ditching.
 Sec. 6-50-1-5. Grading and ditching.
 Sec. 18-49-26-4. Grading and culverts.
 Sec. 23-50-26-4. Grading, culverts, corduroy.
 Sec. 1-50-24-4. Grading, culverts, corduroy.
 West of 18-50-24-4. Grading.
 North of 21-50-23-4. Grading and culverts.
 Sec. 16-49-22-4. Grading and culverts.
 South of 15-49-1-5. Grading.
 Between 33/34-48-22-4. Grading.
 Between 15/16, 21/22-50-27-4. Grading and culverts.
 Between 20/21-49-27-4. Grading and culverts.
 Sec. 1-11-21/22-4. Grading, filling, culverts.
 Between 31/36-10/11-21/22-4. Grading, culverts.
 Between 30/31-1-27-4. Grading, culverts.
 Between 19/24-12-23/24-4. Grading, clearing culverts, culverts.
 North and south of Bowville. Grading and culverts.

West of Carmangay. Repairing washouts, culverts, grading.
 North of 19 to 24-12-22/23-4. Grading, culverts.
 North of 19/30, 20/29-12-21-4. Grading.
 North of 7 to 12-17-19/20-4. Grading, removing snow, culverts.
 East of 5 to 32-12-23-4. Grading and culverts.
 East of 3, 10 and 15-17-20-4. Grading and culverts.
 Between 31/36-16-19/20-4. Grading.
 Between 4/33-12/13-21-4. Grading.
 East of Lomond. Grading and culverts.
 East of 3 to 34-16/17-19-4. Grading and culverts.
 Between 20/29-9-27-4. Grading.
 Between 26/27, 34/35-9-27-4. Grading and culverts.
 Between 15/16, 27/28-9-27-4. Grading.
 Between 20/21-10-23-4. Grading and culverts.
 North of 8 to 12-10-23-4. Grading and filling, culverts.
 South-east of 1/2-16-10-24-4. Grading.
 Between 19/20-10-23-4. Grading, culverts.
 South-east of 1/4-25-11-5-4. Grading, culverts.
 Between 6/31-9/10-2/3-4. Grading.
 Between 7/12-9-2/3-4. Grading.
 South of 25 to 30-9-3-4. Grading, culverts.
 East of 2 and 11, 8-3-4. Grading, corduroying, culverts.
 Between 16/17-9-2-4. Grading.
 North and south of Gros Ventre. Grading.
 Between 3/34 to 36/1-9/10-4. Grading, corduroying, culverts.
 Between 22/27-23/26-7-3-4. Grading.
 East of Seven Persons. Grading.
 Between 9/10-9-2-4. Grading and culverts.
 Between 15/16-10-2-4. Grading and culverts.
 Between 5/6, 31/32-11/12-8-4. Grading, culverts, ditching.
 Between 13/18-10-3/4-4. Grading and culverts.
 Sec. 30-10-8-4. Grading.
 Between 9/10-9-9-4. Opening culvert.
 Between 11/14-9-6-4. Culverts, grading, ditching.
 West of Minda. Culverts, grading.
 Between 4/5-10-8-4. Culverts, grading.
 Between 21/28-22/27-5-6-4. Grading.
 Between 17/18-29/30-3-9-4. Grading.
 Between 34/35-5-10-4. Box culvert.
 Sec. 35-7-7-4. Grading.
 Between 33/34-11-9-4. Grading.
 North of Etzikom. Grading and culvert.
 Sec. 22-8-5-4. Grading, culvert, ditching.
 Between 12/13-9-4-4. Grading.
 Between 12/13-11-9-4. Grading.
 North of Tp. 11-8 to 10-4. Opening culverts, grading, culverts.
 Between 29/30-11-9-4. Grading, culverts.
 West 3 to 34-6/7-6-4. Grading, culverts, ditching.
 Between 7/12-12-2/3-4. Grading.
 Between 19/30-6-8-4. Grading.
 South of Etzikom. Grading, culverts.
 Between 20/21-7-1-4. Grading, culverts.
 Between 9/16-4-6-4. Grading, culverts, ditching.
 West of 4 to 21-10-3-4. Grading.
 North of 22, 23, 24-3-7-4. Grading, culverts, ditching.
 Between 25/26-9-4-4. Grading.
 East of 25/36, 1, 12, 13-6/7-2-4. Grading.
 Between 26/27-16-28-4. Grading and culverts.
 Between 4/5 to 32/33-15/16-28-4. Grading.
 On Sec. 8-14-28-4. Grading, culverts, clearing culverts.
 South-west of 1/4-10-15-29-4. Grading.
 East of 9-16, 21/28-15-28-4. Grading, culverts.
 Stavelly to Carmangay. Grading, culverts, repairing washouts.
 East of 5 and 8-16-28-4. Grading and culverts.
 West of 6 to 31-14-28-4. Grading and culverts.
 North of 31, 32, 33-15-28-4. Grading and culverts.
 Between 10/11-16-29-4. Grading and culverts.
 Between 19/20-15-29-4. Grading, clearing culverts.
 East of Priddis. Grading and culverts.
 East of 29/32-21-25-4. Filling in washout.

Between 7/18, 12/13-33-28/29-4. Grading.
 Between 15/16-32-2-5. Grading.
 Between 10/15-32-2-5. Grading.
 Between 1/2-34-29-5. Grading and culverts.
 Between 20/21, 28/29-33-6-5. Clearing, culverts, brush and corduroy.
 North-west of Bezanson. Grading, culverts, ditching.
 Between 4/5, 8/9-74-7-6. Grading, slough and culverts.
 West of 1 to 36-78-22-5. Grading.
 West of 3 to 34-77/78-6-6. Grading, clearing, stumping, culverts.
 Secs. 31, 33, 34-57-2-5. Corduroy and culverts.
 Between 1/2, 11/12-57-5-5. Corduroy and clearing.
 West of Lunford. Corduroy, ditching, covering corduroy, culverts.
 North of Slon between 57/58-1/2-5. Corduroy and culverts.
 South of Lunford. Grading.
 East of 2 to 35-58/59-4-5. Grading, culverts, clearing.
 Between 24/25-60-1-5. Grading.
 Leading to Campsie in Tp. 59-5-5. Grading.
 Secs. 14 to 18-59-4-5. Grading and culverts.
 Between 11/12-56-2-5. Grading and culverts.
 Between 23/24-60-1-5. Grading, culverts and corduroy.
 Between 3/4-57-5-5. Grading and corduroy.
 Between 19/20-56-2-5. Corduroy.
 West of Picardville, Tp. 58-27-4. Grading, corduroy and covering.
 Between 19/20, 29/30-58-26-4. Grading and culverts.
 Between 1/2-60-1-5. Grading.
 Between 32/33-59-3-5. Corduroy laid.
 Between 24/25-63-25-4. Grading.
 Between 22/23/26/27/61-2-5. Grading and culverts.
 Through 36-59-25-4. Grading.
 Between 12/13-57-3-5. Grading and culverts.
 Between 26/27, 34/35- 6-30-4. Grading, gravelling.
 Between 7/8, 17-18-43-24-4. Grading, culverts.
 Between 32/33-42-24-4. Grading.
 North of 8-44-25-4. Grubbing and ditching.
 Between 21/28-44-27-44. Ditching.
 Between 5/32-42/43-1-5. Grading and culverts.
 Between 2/35-42-28-4. Ditching, grading and culverts.
 South of 6-42-4-5. Corduroy, grading and culverts.
 Between 28/29-42-1-5. Grading.
 Between 13/18-43-27/28-4. Grading and culverts.
 Between Tp. 44-27/28-4. Grading and culverts.
 Between 4/33-43/44-26-4. Grading and culverts.
 Between 5/32-43-44-2-5. Grading.
 Between 3/4, 9/10-44-2-5. Cutting side hill and raising grade.
 Between 19/30-43-1-5. Grading, culverts.
 Between 21/28, 22/27-43-28-4. Grading, culverts.
 Between 31/32-44-27-4. Grading.
 Between Tp. 44-26/27-4. Grading.
 North Tp. 43-3-5. Grading.
 Between 9/10-42-4-5. Grading, culverts.
 Between 20/21-42-25-5. Grading and ditching.
 North of Tp. 44-26-4. Grading and ditching.
 East of 5 to 20-44-27-4. Grading and ditching.
 Between 9/10, 15/16-44-3/4-5. Ditching.
 Between 9/16-42-23-4. Covering corduroy and ditching.
 Between 1/2-44-3-5. Ditching.
 South of 23-44-1-5. Grading.
 Between 16/17-20/21-43-3-5. Grading.
 Between 21/22-43-25-4. Grading.
 Between 27/28-42-26-4. Grading and culverts.
 North of Medicine Hat, 13/14-6-4. Grading, culverts.
 West of Alderson. Grading and culverts.
 Sec. 1-21-11-4. Grading, culverts.
 Between 35/36-14-6-4. Dragging.
 West of 3 to 34-14-6-4. Grading.
 North of 7 to 12-20-8/9-4. Grading, culverts.
 East of 3, 10, 15, 20-20-9-4. Grading.
 Between 25/26, 35/36-15-10-4. Raising grade, grading, sloughs, culverts.
 North 9, 10, 11, 12-13-4-4. Grading.
 East and west of Jenner. Cutting down hills, grading.

Alderson to Iddesleigh. Grading.
 Empress to Ferry in Tp. 23-1-4. Cutting down river bank, filling holes.
 West of 1 to 36-21-8-4. Grading and culverts.
 West of 6-17-9-4. Grading.
 South of Empress on Fourth Meridian. Cutting down river bank, grading, filling holes.
 South-west of 1/4-19-38-27-4. Grading.
 South of 21-38-26-4. Grading.
 Between 9/16, 8/17-38-26-4. Clearing, grubbing, ditching, grading.
 Between 5/32-36-28-4. Grading, culverts.
 East and west of Delburne. Ditching, grading, clearing, grubbing, brushing, covering, sloughs, culverts.
 Between 23/24, 25/26-38-5-5. Grubbing, clearing, ditching, culverts.
 South of Rocky Mountain House, Tps. 38-39-7-5. Gorduroy, ditching, grubbing, culverts.
 South of 15, 16, 17-39-2-4. Grading.
 Between 8/9-39-2-4. Grading.
 East of 1 to 36-38-3-4. Grading.
 East of 6 to 31-41-10-4. Grading and culverts.
 Between 21/28, 22/27-40-6-4. Grading, gravelling, culverts.
 Between 10/15-40-6-4. Grading.
 West of 18-43-9-4. Grading.
 Between 1/2, 11/12-40-7-4. Grading and culverts.
 Between 28/29-39-5-4. Grading.
 North of Hardisty, Tps. 43/44-9-4. Grading.
 Between 11/14-41-6-4. Grading and culverts.
 North of 40-7-4. Grading and culverts.
 North-east corner 31-40-7-4. Grading hills, filling sloughs.
 Between 17/18-44-10-4. Grading and culverts.
 Between 9/10-40-9-4. Grading and culverts.
 Between 25/26-43-10-4. Grading and culverts.
 North and south of Rosyth, west of 3 to 34-42-9-4. Grading, filling sloughs and holes, covering.
 North of 19-39-2-4. Grading.
 Between 25/26-23/24, south of Todd Creek, 9-3-5. Grading, culverts, corduroy.
 South of 14 to 16 up Bragg Creek, 23-5-5. Grading, culverts corduroy.
 Between 19/24, 18/13-45-13/14-4. Grading, culverts, clearing, ditching.
 North of 20-44-15-4. Grading and ditching.
 South of 3-44-13-4. Grading, muskeg.
 Between 33/34-46-13-4. Grading.
 North of Kinsella east 15, 22, 27-47-11-4. Grading and culverts.
 Between 7/12-48-15/16-4. Grading and culverts.
 East 5 to 32-45/46-14-4. Grading.
 East of 10-41-14-4. Grading, sloughs.
 Between 19/20-44-15-4. Grading.
 South of 2-55-27-4. Grading, culverts.
 South of 4-55-26-4. Grading, culverts.
 East of 6 to 31-56-26-4. Grading, ploughing, ditching.
 East and west of Morinville, Tps. 55/56-25/26-4. Grading and ditching.
 Between 27/28-55-25-4. Grading.
 Between 8/17, 9/16-55-26-4. Grading.
 Between 22/23-54-26-4. Grading and draining small lake.
 In 31-54-26-4. Grading and culverts.
 East of 3-57-27-4. Grading and culverts.
 Between 10/11-55-26-4. Grading.
 Between 19/20-57-24-4 and 31/32-58-24-4. Grading, culverts, corduroy.
 East of 2 to 35-57-24-4. Grading.
 Between 22/27-58-24-4. Grading.
 Between 14/15-58-25-4. Grading and ditching.
 Between 21/20-57-24-4. Grading and ditching.
 Between 2/3-58-24-4. Grading and culverts.
 Between 11/14-55-26-4. Grading.
 Between 2/3 to 34/35-55-25-4. Grading.
 Between 5/6 to 31/32-58-26-4. Grubbing and clearing.
 Between 11/12-57-25-4. Grading and ditching.
 South Tp. 54-26/27-4. Grading.
 Between Tps. 57/58-25-4. Grading, grubbing.
 Between 13/18-58-24/25-4. Grading, grubbing, ditching.
 Between 4/5 to 32/33-54-26-4. Grading.
 Between 14/15-57-26-4. Corduroying.

Between 35/36-54-24-4. Covering corduroy, grading.
 Between 12/13-57-25-4. Grading.
 East of 23-57-27-4. Grading.
 Between 10/11-56-26-4. Grading, ditching.
 South of Elk Point, east 25-56-7-4. Grading and culverts.
 Between 9/10-58-9-4. Covering corduroy, clearing, grubbing, ditching.
 Between 26/35-56-6-4. Grading.
 East of north-east 1/4-5-57-6-4. Clearing, grubbing, grading.
 Between 8/17-58-8-4. Covering corduroy.
 Leading to Ferguson Flats, 55/57-4-4. Grading, culverts, clearing, grubbing.
 Between 25/30-57-8/9-4. Grading, culvert.
 Between 6/31-5/32-60/61-8-4. Grubbing, grading, ditching.
 South of 6-56-3-4. Corduroy, grading.
 North of 13 to 18-63-2-4. Grading, culverts.
 West of 18-56-3-4. Grubbing, removing rock, grading.
 Through 23-56-4-4. Corduroying.
 North and south of Bonnyville, Tps. 60/61-5/6-4. Ditching, grading, culverts, grubbing, covering corduroy.
 South of Frog Lake, Tps. 54 to 56-3-4. Ditches, grading, culverts.
 Between 9/16-63-4-4. Clearing, grubbing, grading.
 Between 31/32-57-4-4. Clearing, grubbing, corduroy, grading.
 Between 2/3, 34/35-59/60-7-4. Grading.
 Between 32/33-37-19-4. Grading and culverts.
 South of Gadsby, Tp. 37-17-4. Grading and culverts.
 Between 16/17-10-16-4. Grading and culverts.
 South of 4-38-14-4. Grading and culverts.
 North of 16, 17, 18-38-15-4. Moving fence on blind line.
 Between 5/31-49/50-27-4. Grading and culverts.
 Edmonton and Tommy la Potac I. R. Grading and culverts.
 North of Ferry in Tps. 50/51-1/5. Clearing, grubbing, grading, culverts.
 Between 33/34-50-27-4, and between 4/5, 8/9-51-27-4. Grading.
 Between 5/6-7/8-17/18-53-26-4. Clearing right of way.
 South of Wabamun west of 6 and 7-53-3-5. Brushing, grubbing, ditching, culverts, grading.
 Between 25/30-65-22/23-4. Ditching, covering corduroy, culverts.
 Between 13/14-56-24-4. Ditch planked, cribbed.
 Between 19/24-57-22/23-4. Ditching.
 Between 26/27-56-24-4. Culverts, corduroy and covering, grading.
 West of 1/6-54-24-4. Brushing, corduroy, ditching, grading.
 Between 23/26-57-20-4. Grading, culvert.
 West of 1, 12-13-24-59-19-4. Grading, ditching.
 Between 8/17-57-23-4. Covering brush, ditching, culverts.
 Between 21/28-58-23-4. Clearing, corduroy, grubbing.
 Between 3/4-59-23-4. Grading, corduroy, grubbing.
 Between 6/36-58/59-18-4. Corduroy, covering, grubbing, ditching, grading.
 East of 18, 19-57-23-4. Corduroy covered, ditching, culvert, grading.
 Between 19/20-56-22-4. Ditching, covering corduroy, grading, clearing, grubbing.
 North of 9, 10, 11-59-20-4. Ditching, clearing, grading, grubbing, corduroy and brush.
 Between 19/30-58-21-4. Ditching, corduroy, brush, covering, ditching, culverts.
 Through 29 and 30, between 21/28-21-24-4. Clearing, grubbing, grading, corduroy and brush covered.
 East of 31-60-23-4, and east 6 and 7-61-23-4. Grading, culverts.
 Through 3, 4, 5-60-21-4. Clearing, grubbing, blasting, corduroy, grading, ditching.
 East of 27 and 34-61-24-4. Grubbing, grading.
 Between 5/6-61-24-4. Grading, cutting down hill side.
 Sec. 7 to 12-56-24-4. Ditching and grading.
 North of 7 to 9-60-19-4. Ditching, corduroy, brushing, culverts.
 South of 19 and 24-62-23/24-4. Grading.
 Between 8/9-58-23-4. Grading, culverts, ditching.
 North of Tp. 64-22/23-4. Corduroy, brushing, clearing, grading.
 North of 22 and 23-63-23-4. Grading and ditching.
 North of 19 to 24-58-18-4. Clearing, grubbing, ditching, grading.
 Between 25/26, 35/36-8-21-4. Grading, culverts.
 Between 2/3 to 34/35-6-22-4. Grading and culverts.

Between 12/13, 10-15-9-20-4. Grading and culverts.
 Between 15/16-7-21-4. Grading and culverts.
 Between Old and New Stirling, 29 and 32-6-19-4. Grading and culverts.
 Through 6/7-9-18-4. Grading and culverts.
 Between 21/22-8-21-4. Grading and culverts.
 Between 19/24-6-20/21-4. Destroying weeds, grading and culverts.
 North of 7 to 12-6-19-4. Grading and culverts.
 Between 8/9-19-4. Grading.
 Between 21/22-6-22-4. Grading.
 Between 1/2 to 35/26-9-21-4. Grading and culverts.
 Between 19/20 to 24/25-6-19-4. Grading.
 Between 10/11-6-21-4. Grading.
 Between 1/2, 11/12-9-20-4. Grading.
 North of 9, 10, 11, 12-6-20-4. Repairing washout, culvert and grading.
 Between 22/23-8-21-4. Grading.
 North of Tp. 11-19-4. Ploughing fireguard.
 North of 7-17-17-4. Removing snow.
 Between 1/35-10/11-4. Grading.
 North of 33, 34, 35-5-20-4. Destroying weeds, grading, culverts.
 Between 16/17-9-20-4. Grading.
 Between 1/6-10-18/19-4. Grading and culverts.
 North of 19, 20 and north of 22, 23, 24-8-20/21-4. Grading and culverts.
 North 19 to 24-9-21-4. Grading and culverts.
 East of 6 and 7-10-16-4. Grading.
 Between 8/9-6-20-4. Destroying weeds, grading and culverts.
 Between 1/36-16/17-17-4. Grading and culverts.
 East of 24, 25-6-21-4. Destroying weeds.
 Between 14/15-9-21-4. Grading and culverts.
 Between 4/5-6-22-4. Grading and culverts.
 Between 3/4-9/10-17-17-4.
 Between 1/6-8-19/20-4. Grading.
 Through Tps. 15 to 17-18-4. Grading and culverts.
 East of 7-11-19-4. Grading.
 Between 8/9, 16/17-7-18-4. Cutting down hills, grading.
 Between 4/33-6/7-11-4. Grading.
 Between 10/11-7-11-4. Grading and culverts.
 Between 28/29-6-21-4. Grading and culverts.
 East of 20-8-11-4. Grading and culverts.
 Between 27/28-7-20-4. Grading and culverts.
 South of 13, 14, 15-8-21-4. Grading.
 Between 1/6, 12/7-8-20/21-4. Grading and culverts.
 Between 21/22-12-19-4. Culverts.
 Between 3/4, 9/10-15-16-4. Grading and culverts.
 Between 29/30-14-16-4. Grading.
 Between 10/11-13-16-4. Grading and culverts.
 Between 27/28, 33/34-8-11-4. Grading and culverts.
 Between 19/30-15-18-4. Grading slough.
 Between 35/36-7-17-4. Grading approach to bridge.
 Between 9/16-6-22-4. Grading.
 Between 23/26-8-11-4. Grading.
 Between 19/20-8-20-4. Grading and culverts.
 Between 12/13-7-11-4. Grading.
 Between 15/16-9-20-4. Grading and culverts.
 Between 1/2-17-17-4. Grading.
 West of 6 and 7-17-16-4. Grading and culverts.
 West of 28/33-11-15-4. Grading.
 North of 31/33-14-16-4. Grading and culverts.
 Between 14/15-15-16-4. Grading and culverts.
 Between 10/15, 9/16-15-16-4. Grading.
 West of 6 to 31-15-16-4. Grading and culverts.
 Between 19/30-14-16-4. Grading and culverts.
 Between 7/8, 5/6-15-16-4. Grading.
 Between 32/33-8-19-4. Grading.
 Between 9/16-16-18-4. Grading and culverts.
 West of 6-10-17-4. Grading.
 Between 31/6-51-53-14-4. Covering grade over slough.
 Between 31/32-51-16-4. Grading sloughs.
 Between 5/32-52-53-18-4. Grading approaches to bridges.
 Through Tps. 49, 50-51-15-4. Grading.
 Between 3/34, 4/33-52/53-17-4. Grading sloughs.

North of 13 to 18-52-15-4. Grading.
 East of 2 and 11-52-13-4. Grading sloughs.
 North of 7, 8, 9-53-12-4. Grading sloughs.
 Between 4/33 and 5/32-49/50-15-4. Grading.
 Between 24/25, 19/30-54-17/18-4. Grading.
 Between 31/32-49-15-4. Grading.
 Between 21/22-51-12/4. Grading side hills and sloughs.
 Between 27/28-49-19-4 and 15/16-50-19-4. Grading sloughs.
 East of 30 and 31-52-14-4. Grading.
 Between 22/27, 21/28-53-16-4. Grading and culverts.
 Between 22/23-53-12-4. Grading sloughs.
 West of 14 and 23-49-15-4. Grading approaches to bridge.
 Between 19/20-50-8-4. Grading.
 Between 35/36-50-11-4. Grading.
 Between 26/27-52-7-4. Grading sloughs.
 North of 31 to 36-54-10/11-4. Grading slough.
 Between 14/15-55-7-4. Grading and grubbing.
 North of 32-55-7-4. Grading and grubbing.
 North-east corner 30-49-6-4. Grading and opening ditches.
 Through Tps. 48/49-10-4. Grading, cutting hills, ploughing.
 West of 6-50-7-4. Grading.
 Between 4/5-55-9-4. Grading and clearing.
 Between 6/31-5/32-55/56-19-4. Grading, brush, corduroy, covering.
 Surveyed trail north of Whitford Lake. Grading sloughs.
 East of 20, 29, 32-55-19-4 and east of 5, 8-56-19-4. Grading.
 Between 12/13-55-22-4. Grading, culverts, corduroy.
 North of 34 to 36-55-19-4. Grading.
 Through 13-56-16-4. Grading sloughs.
 Between 5/6, 7/8-55-20-4. Corduroy and covering.
 Between 1/2, 11/12-55-22-4. Grading, covering, corduroy.
 Between 6/31, 5/32, 3/34-55-18-4. Grading.
 South of 1 and 2-57-17-4. Grading and corduroying.
 North of 34-55-21-4. Grading.
 Between 1/36, 2/35, 56/57-19-4. Grading and corduroy covered.
 Between 19/30-55-17/18-4. Grading and corduroy.
 Between 4/33-55/56-17-4. Grading, corduroy and covering.
 North of 8, 9, 10-58-16-4. Grading, covering, corduroy.
 East of 21-55-21-4. Grading, covering, corduroy.
 Between 3/4, 9/10-58-16-4. Grading corduroy, brush, covering.
 Between 25/26-46-3-5. Grading, corduroy, brush laid and covered.
 Between 25/30-56-17/18-4. Grading, covering, corduroy, brush.
 Between 10/15-58-16-4. Grading, covering, corduroy, brush.
 Between 13/14-57-18-4. Covering brush and corduroy.
 Between 11/14-56-17-4. Corduroy and covering.
 Between 15/16-56-20-4. Ditching, haying and covering corduroy.
 Between 19/30, 20/29-57-19-4. Corduroy and covering.
 South-west of 36-43-4-4. Grading.
 Through 20-43-1-4. Grading.
 In 36-43-4-4 and in 18-44-4-4. Grading approach to subway.
 Between 23/24, 24/25-45-6-4. Grading.
 West of 7-47-10-4. Grading.
 East of Warner, Tp. 4-16/17-4. Grading, ploughing and repairing.
 Between 1/36-3/4-13-4. Grading slough.
 Between 32/33-4-18-4. Grading approach to bridge.
 Between 22/27-5-18-4. Grading approach to bridge.
 East of Milk River, Tp. 2-14, 15, 16-4. Grading.
 Between 7/18, 8/17-6-18-4. Grading and ploughing.
 North of New Dayton, Tps. 5/6-18-4. Grading.
 Between 21/22, 15/16-1-12-4. Grading and repairing culvert.
 West of Tp. 4-11-4. Grading and repairing culvert.
 Between 20/21, 28/29-6-11-4. Grading and ploughing.
 Between 11/12, 1/2-5-17-4. Grading and building new road.
 Between 20/29, 22/27-1-17-4. Grading and culverts.
 Between 35/36-1-17-4. Grading and culverts.
 Between 14/15, 22/23-1-17-4. Grading.
 South-east 1/4-29 to south-east corner 36-2-14-4. Grading and culvert.
 Between 9/16, 10/15-1-17-4. Grading.
 Between 8/9-1-17-4. Grading and culverts.
 Between 19/24-1-16/17-4. Grading.
 Between 17/18-5-12-4. Grading and culvert.

Between 21/28, 28/29-47-23-4. Grading.
 Between 23/26, 22/27-46-26-4. Clearing, grubbing, corduroy, covering.
 South-east 1/4-25-45-23-4. Cutting down hills, gravelling.
 Between 11/12-44-23-4. Ditching, grading, ploughing.
 Between 33/34-6/7-44-22/23-4. Grading.
 Between 31/32-45-27-4. Grading and filling.
 Between 20/29, 27/28-45-26-4. Covering and laying corduroy, clearing
 culverts, ditching, grading.
 Between 35/36-46-24-4. Covering corduroy.
 West of Bigstone, Tp. 47-25/27-4. Grubbing, ditching, grading.
 Between 10/11, 14/15-45-2-5. Clearing, ditching, grading.
 East of 1 and 12-46-1-5. Ditching, grading, repairing culverts.
 Between 10/15-45-28-4. Ditching, corduroy, culverts.
 North-east corner 10-46-2-5. Ditching, corduroy, clearing, grubbing.
 Between 21/28-46-3-5. Corduroy, culverts, grubbing.
 Between 1/2, 11/2-47-3-5. Grubbing, ditching, culvert, grading.
 Between 21/28-45-2-5. Ditching, corduroy, covering, grading.
 Between 3/34-44/45-26-4. Ditching and grading.
 West of 24, 25, 36-45-26-4. Clearing and grading.
 Between 6/31-45-2-5 and between 1/36-45-3-5.
 Between 33/34, 27/28-45-1-5. Covering, corduroy, grading, grubbing,
 clearing.
 Between 17/20-45-22-4. Grading and clearing.
 Between 8/9, 16/17-44-22-4. Grading.
 In 25/26, 35/36 Tp. 46-23-4. Cutting down a hill and widening road.
 West of 18-46-25-4. Ditching.
 Between 9/10-47-23-4. Corduroy and covering, brush, clearing, grubbing,
 grading.
 West 13, 24, 25-46-27-4. Grubbing, brushing, grading.
 Between 9/10-47-2-5-4. Clearing and ditching.
 Between 19/20-47-27-4. Ditching, grading, grubbing.
 Between 8/17-47-27-4. Ditching.
 East of 13-47-1-5. Clearing, grubbing, ditching, culvert.
 Between 10/11-46-1-5. Clearing, grubbing, ditching.
 Through sec. 12-58-17-4. Repairing road.
 Between 22/27-55-13-4. Corduroying, grading.
 Between 8/9-56-13-4. Corduroying, grading, culverts.
 South of Shandro between 3/4, 26/27-57-15-4. Corduroy, grading, cul-
 verts.
 Surveyed trail around east end of Whitford Lake. Grading sloughs.
 Between 23/24-54-13-4. Grading and culverts.
 Between 19/30-59-16-4. Clearing, corduroy, grading.
 Between 17/18-59-16-4. Covering corduroy.
 Between 3/34-58/59-17-4. Clearing and corduroying.
 Between Tps. 55/56-13, 14, 15-4. Grading.
 North of 31, 32, 33-57-15-4. Ditching, covering, corduroy, subway and
 grading.
 Between 22/27-59-13-4. Grading sloughs.
 Through sec. 6-57-14-4. Corduroying and grading.
 Between 1/12 to 5/8-59-14/15-4. Clearing, grubbing, grading.
 Between 33/34-59-17-4. Corduroy.
 West of 2 and 11-56-15-4. Grading.
 Between 13/18, 19/24-58-17/18-4. Corduroying and grading sloughs,
 culverts.
 Between 5/6, 7/8-58-13-4. Cutting down hills, grading sloughs.
 Between 14/15-57-15-4. Ditching a slough, grading.
 Between 16/17-58-14-4. Grading sloughs, repairing river bank.
 Between 17/20, 18/19-59-16-4. Corduroying.
 West of 18/59-17-4. Covering corduroy.
 Between 17/18, 19/20-58-17-4. Corduroying and clearing.
 Between 2/5-57-13-4. Grading.
 North of 18/19-58-14-4. Grading, corduroying, brushing.
 Between 16/17, 9/8-59-16-4. Clearing and corduroy.
 Between 13/14, 23/24-59-17-4. Grading.

TRUNK ROADS

During 1915 trunk road construction was undertaken on the following main roads:

Road north from Cereal.
Road west from Youngstown.
Road south from Lloydminster.
Road north from Lloydminster.
Road south from Kitscoty to Battle River.
Road from Athabasca towards Wabasca.
Road from Athabasca to Baptiste Lake.
Road from Athabasca to Lesser Slave Lake.
Road from Athabasca to Lac La Biche.
Road north from Athabasca.
Road from Saddle Lake to Lac La Biche.
Road north from St. Paul de Metis.
Road from Brosseau to St. Paul de Metis.
Road from Plamondonville to Lac La Biche.
Road from Ashmont to St. Paul de Metis.
Road around east end of Lac La Biche.
Road north-east from Bassano.
Road east from Cluny.
Road south-west from Bassano.
Road north from Countess.
South Morleyville Trail from Calgary to Morley.
Trail from Calgary to Macleod.
Road east and west from Donalda.
Road from Bawlf to Donalda.
Road south from Daysland.
Road from Daysland to Strome.
Road north from Ohaton to Tofield.
Road north from Camrose.
Road north from Daysland.
Road from Camrose to Bashaw.
Road from Kingman to New Sarepta.
Road east and west from Camrose.
Road from Lethbridge to Cardston.
Road north and east of Magrath.
Road from Macleod to Beaver Creek.
Macleod-Lyndon Trail to Meadow Creek.
Road from Stavely to Willows.
Road east and west of Clyde.
Road north from Barrhead.
Road north and west from Dusseldorf.
Road from Mellowdale to Holmes' Crossing and west.
North Morleyville Trail from Calgary to Morley.
Road west from Morley.
Road west from Airdrie.
Road north from Throne.
Road from Castor to Compeer.
Road north from Coronation.
Road north from Veteran.
Road from Three hills to Red Deer River.
Road from Carbon to Red Deer River.
Road east and west of Bergen.
Road west from Olds.
Road from Edmonton to Deville.
Road from Ministik to Deville.
Road from Edmonton east along G. T. P. Railway.
Road from Calgary to Edmonton.
Road from Edson to Grande Prairie.
Road from Peers to Shining Bank.
Road from Edson to Tollerton.
Road from Gleichen to Cluny.
Road from Beiseker to Drumheller.

Road from Calgary to Gleichen.
 Road from Grouard to Reno and Peace River Crossing.
 Road from Grouard to Spirit River.
 Road from Grouard to White Fish Lake.
 Road from Grouard to Sturgeon Lake.
 Road from Big Prairie to Prairie River Settlement.
 Road through Swan River Settlement.
 Road from Drumheller to Stettler.
 Road east from Munson.
 Road from Hanna to Castor.
 Road from Hand Hills to Craigmyle.
 Road south from Hanna.
 Road from Hanna to Craigmyle.
 Road from Craigmyle to Gadsby.
 Road west from Richdale.
 Road from Innisfail to Kevisville and west.
 Road east from Penhold to Red Deer River.
 Road east from Innisfail.
 Road west from Innisfail.
 Road from Mirror to Nevis.
 Road west from Lacombe.
 Road from Lacombe to Mirror.
 Road from Lac Ste. Anne to Whitecourt.
 Road from Junkins to Greencourt.
 Road from Entwistle to Rochfort.
 Road south of Entwistle.
 Road north from east end of Lac Ste. Anne.
 Road from Seba to Tomahawk.
 Road north from Onoway.
 Road from Wabamun to Entwistle.
 Road from Lac Ste. Anne to Cosmo.
 Road from Rochfort to Peavine.
 Road east from Leduc.
 Road west from Leduc.
 Road west from Kavanagh.
 Road from Macleod to Lethbridge.
 Road from Macleod to International Boundary.
 Road from Macleod to Pincher Creek.
 Road from Medicine Hat to Josephsburg.
 Road from Medicine Hat to Dunnmore.
 Road from Irvine to Cypress Hills.
 Road from Walsh to Grayburn.
 Road from Woolchester south to Sage Creek.
 Road from Irvine to Walsh.
 Road from Irvine to the south-west.
 Road from Grayburn to Cypress Hills.
 Road south from Medicine Hat.
 Road from Medicine Hat to Bow Island.
 Road north of Seven Persons.
 Road north of Irvine.
 Road south of Winnifred.
 Road south from Seven Persons.
 Road north and south of Pashley.
 Road from Pakowki Lake to Seven Persons.
 Road north from Larmour.
 Road from Minda to Cypress Hills.
 Road across Pendant d'Oreille Coulee.
 Road north and south of Faith.
 Road from Seven Persons to Medicine Hat.
 Road from Nanton to Willow Creek.
 Road west from Nanton.
 Road from Calgary to Millarville.
 Road east from Olds.
 Road across Brunski Flat.
 Road west from Bowden.
 Road from Shaftesbury to Dunvegan.
 Road from Peace River Landing to Fort Vermilion.
 Road from Grande Prairie to Spirit River.
 Road from Spirit River to Pouce Coupe Prairie.
 Road up Peace River from Shaftesbury.

Road from Beaver Lodge to Happy Valley.
Road from Saskatoon Lake to Beaver Lodge.
Road from Grande Prairie City to Smoky River.
Road east from Sion.
Road east and west of Dunrobin.
Road north and south through Rich Valley.
Road from Sion to Rossington.
Road east and west of Clyde.
Road from Edmonton to St. Albert and Morinville.
Road from Belvedere to Mosside.
Road north from Belvedere.
Road south from Westlock.
Road east from Ponoka.
Road west from Ponoka.
Road from Buckhorn to Springdale and west.
Road from Medicine Hat to Waddington and north.
Road from Irvine to Hilda.
Road north from Suffield.
Road east from Alderson.
Road from Medicine Hat to Alderson.
Road from Bowmanton to Roseglen.
Road west from Red Deer.
Road south from Hardisty.
Road from Lougheed to Hardisty.
Road south-east from Hardisty.
Road south from Hughenden.
Road from Lundbreck to Crow's Nest Pass.
Road from Sedgewick to Strome.
Road south from Kinsella.
Road south from Killam.
Road south from Sedgewick.
Road south from Lougheed.
Road from Vegreville to Bruce and Strome.
Road from St. Albert to Lac Ste. Anne.
Road east from Seymour.
Road east and west from Legal.
Road from Ste. Albert to Cold Lake.
Road from St. Paul to Onion Lake.
Road from Cold Lake to Frog Lake.
Road from Mooswa to Ferguson Flats.
Road from Mooswa to Frog Lake.
Road from Durlingville to Beaver River.
Road south from Halkirk.
Road from Big Valley to Sullivan Lake.
Road from Stettler to Donalda.
Road from Nevis to Castor.
Road from Stettler to Buffalo Lake.
Road from Edmonton to Woodbend and Holborn.
Road south from Carvel.
Road south from Tomahawk.
Road west from Edmonton.
Road from Edmonton to Fort Saskatchewan.
Road from Edmonton to Athabasca.
Road from Fort Saskatchewan to Victoria.
Road north from Fort Saskatchewan.
Road north from Pine Creek.
Road east and west from Waugh.
Road east and west of Collington.
Road west from Lily Lake.
Road west from Raymond to Magrath.
Road from Stirling to Lethbridge.
Road from Raymond to Lethbridge.
Road east from Stirling.
Road from Taber to Retlaw.
Road north from Coaldale.
Road south from Burdett.
Road from Stirling to Coutts.
Road south from Bow Island.
Road from Chipman to Toffield.
Road from Vegreville to Desjarlais and north.
Road from Ryley to Mundare.

Road from Vegreville to Duvernay.
Road from Lloydminster west along C. N. Railway.
Road from Mundare to Andrew.
Road from Ranfurley to Viking.
Road north from Innisfree.
Road north from Mannville.
Road north from Vermilion.
Road south from Elk Point Ferry.
Road from Vermilion to Landonville.
Road east and west from Lamont.
Road from Fort Saskatchewan to Desjarlais.
Road north from Bruderheim.
Road east from Fort Saskatchewan.
Road east from Coutts.
Road east from Lucky Strike.
Road east from Wetaskiwin.
Road west from Millet.
Road west from Duhamel.
Road west from Wetaskiwin.
Road east from Desjarlais.
Road from Pakan to Smoky Lake.
Road north from Shandro.
Road west from Taber.
Road from Lethbridge to Bow Island.

ARCHITECTURAL AND BUILDING CONSTRUCTION BRANCH

Edmonton, Feb. 23, 1916.

L. C. CHARLESWORTH, Esq.,
Deputy Minister of Public Works,
Edmonton, Alta.

Sir,—I have the honour to report on the work undertaken by the Architectural and Building Construction Branch for the year 1915.

Under the head of Architectural work there were no buildings of very large dimensions to be considered, except those already under course of construction. Several small buildings, however, were undertaken, and very careful study was given to each subject.

The work of this section was considerably less than previous years and a much reduced staff was necessary. The work under construction was of a very important nature and entailed considerable supervision, and careful attention was given to each particular job. The bulk of this supervision was undertaken by Mr. McDonald, General Building Superintendent, with such personal supervision as I was able to give. The work performed in detail was as follows:

ARCHITECTURAL WORK

CAMROSE NORMAL SCHOOL

Details of interior equipment were completed including special laboratory tables for Science Rooms. A design with all necessary drawings for the laying out of the grounds was completed.

PONOKA ASYLUM

Drawings and details were completed for the North Dormitory. Reinforced concrete reservoir was designed, drawings completed with all necessary details and specifications. Tenders called and contract awarded. This reservoir was in connection with the water supply for the institution and has a capacity of 250,000 gallons. Drawings and details were also prepared for the extension to the power house new water softening plant. Some preliminary work was done in connection with the new South Dormitory for males.

PROVINCIAL GAOL, FORT SASKATCHEWAN

A design was prepared and drawings and details completed for the erection of bakery and meat store, and also for the exercise yard. Specifications were prepared for the work in connection with this building and necessary tenders called for and contract awarded.

TELEPHONE BUILDING, CAMROSE

Complete drawings were prepared with the necessary details and specifications for the completion of this building. Tenders were called for and contract awarded for its erection.

TELEPHONE BUILDING, WETASKIWIN

The necessary details for the completion of this building were prepared, the bulk of the work having been performed in 1914.

GOVERNMENT HOUSE

Drawings were prepared for the proposed green-house to be erected near the garage building.

PARLIAMENT BUILDINGS

Drawings and details were prepared for a considerable amount of special furniture required for offices in the Parliament Buildings.

AGRICULTURAL SCHOOLS

Designs and all necessary drawings, details and specifications were prepared for the erection of stock pavilion and agronomy buildings at the Agricultural Schools at Vermilion, Olds and Claresholm. Tenders were called for and contracts awarded.

EDUCATIONAL DEPARTMENT

Assistance has been rendered to the Department of Education with reference to the approval of plans and specifications for new school buildings to be erected in the Province. All plans for new schools submitted to the Department of Education were referred to this branch for examination and report. Plans for the following schools were approved: Lougheed, Provost, Cardston, Legal, Kirriemuir, Youngstown (Young's Valley), Gregerson, Rosemary, Delia, Hussar, Peace River Crossing and Wetaskiwin.

Plans for a two room school were also prepared and completed for publication with the necessary specifications and form of con-

tract, the Educational Department now having this plan for circulation to school districts requiring a school of this nature.

AGRICULTURAL DEPARTMENT

Assistance has been rendered to the Agricultural Department in connection with plans of farm buildings and a design was prepared for a dairy barn. Also, a good deal of drafting work has been performed in connection with sewage disposal scheme as designed by the Provincial Sanitary Engineer.

CONSTRUCTION WORK.

CAMROSE NORMAL SCHOOL

The whole of the interior equipment including special laboratory tables and other fittings and designs were completed, the work being performed in our carpenter shop and installed by day labor. The Assembly hall, corridors and offices in this building were decorated. Preliminary work was performed on the grounds; the main driveway to main entrance was graded and completed, including sidewalks. This work was undertaken by contract.

PONOKA ASYLUM

The North Dormitory building was completed and taken over from the contractors in a satisfactory condition. The power house addition was carried out by contract and was practically completed at the end of the year. A battery of two B. W. boilers of 225 horse power each was installed and practically completed. Reinforced concrete reservoir was constructed by contract and completed in a satisfactory manner. The installation of new water pipe lines to connect to the reservoir was completed, the work being done by day labor. The water softening plant was installed and work practically completed. A new horse stable was erected to accommodate 20 horses, the building being of frame construction, the work being carried on by our own department by day labor.

PROVINCIAL GAOL, FORT SASKATCHEWAN

The work on the main building was completed and the building turned over to the Provincial Secretary's department for occupation. The bake house and meat store building was erected and completed, and also the walls of the exercise yard. This building was of reinforced concrete and was carried out by prison labor to a large extent, skilled labor being employed where necessary; the plumbing and heating work being done under contract. A sedimentation basin was constructed in connection with the water supply, the construction being of reinforced concrete and the labor, as far as possible, being performed by prisoners.

CAMROSE TELEPHONE BUILDING

This work was carried on by contract and the building practically completed by the end of the year.

WETASKIWIN TELEPHONE BUILDING

This building was completed and turned over to the Telephone Department for use.

MACLEOD AND R. N. W. M. P. BARRACKS

23 new steel cells were installed in No. 1 Guard Room. These cells were shipped from Fort Saskatchewan after the completion of the building at that point.

AGRICULTURAL SCHOOLS

The stock pavilion and agricultural buildings were constructed under contract and completed in a satisfactory manner, and were turned over to the school authorities for occupation in November.

Besides the above work described in detail, there has been the usual maintenance and small repair work necessary to keep up the whole of the buildings coming under the care of this branch. The whole of this work has been carried out in an efficient and economical manner. Our carpenter shop has continued to give satisfaction and has turned out most of the mill work for the buildings enumerated above, besides which a considerable quantity of furnishings has been manufactured. It has been found that we are able to construct certain furniture in our shop at a considerable less cost than the same quality of goods can be purchased. We are also able by this means, to construct furniture more to our own particular needs and requirements and obtain much better workmanship.

I have the honour to be, Sir,

Your obedient servant,

RICHARD P. BLAKEY,

Provincial Architect.

SURVEYS BRANCH

THE DEPUTY MINISTER OF PUBLIC WORKS,

Edmonton, Alta.

Sir,—I beg to submit the following report in connection with the Surveys Branch and its work during the year 1915.

Survey parties did not enter the field as early as usual, and partly owing to the season being thus shortened and partly owing to the considerable wet weather, the number of surveys made was below the average.

Certain changes in the method of dealing with surveys in Local Improvement Districts were made in 1915, and it was arranged that the Local Improvement authorities should in future take care of

compensation claims in the same manner that Rural Municipalities do. This arrangement has been found to work very satisfactorily.

The general summary of the work, which is appended, shows that a considerable number of surveys asked for in 1915 had to be carried forward to 1916 for attention. This, however, is in keeping with our advice to the local authorities to ask for surveys as far in advance of immediate requirements as possible.

The examination of townsite plans, which two or three years ago involved a large amount of work, has now greatly fallen off, and only a comparatively small number of plans were presented for approval in 1915.

The survey of the boundary between Alberta and British Columbia was carried on along the same lines as in the two previous years, satisfactory progress being made.

The summary appended shows the work of the branch during the year, and statement of surveys made in the vicinity of Edmonton under direct supervision from this office is also appended.

Reports from the various district surveyors and engineers are also appended.

I have the honour to be, Sir,

Your obedient servant,

L. C. CHARLESWORTH,

Director of Surveys.

SUMMARY.

Surveys required and brought forward from 1914	741
Surveys asked for during 1915	962
Surveys made during 1915	589
Surveys carried over to 1916 schedule	882
Surveys made without instructions (included in above figures)	109
Miscellaneous examinations made during the season	183
Plans prepared and filed in the Land Titles Offices	627
Certificates of Title received for roads	629
Certificates of Title received for lands given for public purposes under Departmental regulations regarding subdivisions	34
Certificates of Title received for land other than surveyed roads (area cut off by surveyed roads)	2
Transfers issued covering roads no longer required	119
Amount paid as compensation for right-of-way, etc.	\$34,550.00

LEASE OF ROAD ALLOWANCES.

Number of new applications to lease road allowances	60
Number of new applications granted	13
Number of leases granted during 1915, including free leases issued as compensation for surveyed roads	149
Total amount of rental received for 1915	\$336.00

LIST OF SURVEYS MADE IN THE VICINITY OF EDMONTON UNDER
DIRECT SUPERVISION FROM THIS OFFICE.

NEW ROADS.

Survey No.	File.	Description.
839-14	22017	Secs. 16 and 17, Tp. 47-3-5.
66-15	22257	Sec. 27 and 34, Tp. 47-22-4.
77-15	22018	Sec. 30, Tp. 47-3-5.
163-15	22267	Sec. 29, Tp. 41-23-4.
228-15	15054-B	Sec. 25, Tp. 48-28-4.
316-15	16233	Sec. 19, Tp. 40-18-4.
317-15	15231	Secs. 5 and 8, Tp. 56-21-4.
325-15	14110B3, 4	C. & E. Trail Wetaskiwin to S.W. corner of Bobtail I. R
357-15	20019	Sec. 12, Tp. 46-22-4.
360-15	22586	Secs. 28, 29 and 31, Tp. 47-26-4.
361-15	22622	Sec. 29, Tp. 43-22-4.
530-15	22689	Sec. 18, Tp. 45-1-5.
532-15	15192	Sec. 1, Tp. 47-27-4.
653-15	22974	Sec. 6, Tp. 52-20-4.
898-15	14255-C	South end of Pigeon Lake, Tps. 46-27 and 28-4.

DIVERSIONS.

510-14	21876	Sec. 25, Tp. 41-23-4.
511-14	21874	Sec. 35, Tp. 41-23-4.
638-14	21564	Sec. 7, Tp. 42-21-4.
650-14	18930	Sec. 3, Tp. 42-22-4.
660-14	22041	Secs. 13, 18, 19 and 24, Tp. 46, Rgs. 22 and 23-4.
690-14	22093	Secs. 3, 4, 5 and 6, Tp. 50-3-5 and Sec. 1, Tp. 50-4-5.
804-14	22168	Sec. 29, Tp. 45-27-4.
818-14	20260	Secs. 13 and 18, Tp. 40, Rgs. 19 and 20-4.
838-14	22208	Sec. 10, Tp. 45-22-4.
44-15	22363	Sec. 1, Tp. 47-3-5.
65-15	22330	Secs. 7, 18 and 19, Tp. 52-20-4 and Secs. 24 and 25, Tp. 52-21-4.
67-15	22337	Secs. 31 and 32, Tp. 43-19-4.
70-15	22342	Sec. 25, Tp. 52-23-4.
150-15	22412	Sec. 27, Tp. 45-1-5.
151-15	22413	Secs. 15 and 22, Tp. 45-2-5.
157-15	22384	Sec. 16, Tp. 51-20-4.
158-15	22374	Sec. 4, Tp. 47-19-4.
160-15	22367	Secs. 14, 15, 22, 23, 26 and 34, Tp. 42-20-4.
168-15	14771-C	Sec. 25, Tp. 49-28-4.
172-15	20621	Sec. 12, Tp. 51-19-4.
173-15	17948-B	Secs. 10 and 11, Tp. 40-21-4.
174-15	22495	Sec. 4, Tp. 54-21-4.
176-15	18367	Secs. 27 and 34, Tp. 44-23-4.
315-15	22588	Secs. 33 and 34, Tp. 46-27-4.
318-15	22529	Sec. 33, Tp. 54-21-4.
331-15	22621	Sec. 1, Tp. 49-24-4.
358-15	22724	Sec. 12, Tp. 44-21-4.
363-15	22526	Sec. 11, Tp. 42-22-4.
365-15	22535	Secs. 9 and 10, Tp. 45-28-4.
367-15	22703	Sec. 11, Tp. 53-19-4.
428-15	22707	Sec. 11, Tp. 43-27-4.
431-15	22796	Secs. 15, 16 and 21, Tp. 40-20-4.
432-15	22794	Secs. 11, 14, 15 and 23, Tp. 40-20-4.
435-15	22798	Secs. 16, 17 and 20, Tp. 40-20-4.
495-15	22743	Sec. 11, Tp. 44-23-4.
500-15	22738	Secs. 13, 14 and 23, Tp. 41-23-4.
501-15	22758	Secs. 6, 7 and 8, Tp. 40-20-4.
502-15	22739	Sec. 31, Tp. 39-20-4.
529-15	22712	Secs. 7 and 18, Tp. 50-25-4.
531-15	22690	Sec. 35, Tp. 45-1-5.
545-15	22795	Secs. 10 and 15, Tp. 40-20-4.

Survey

No.	File.	Description.
546-15	22797	Secs. 21 and 28, Tp. 40-20-4.
571-15	22768	Secs. 24 and 26, Tp. 46-3-5.
573-15	22830	Sec. 21, Tp. 46-26-4.
615-15	21825	Secs. 12, 13, 14 and 16, Tp. 41-20-4.
616-15	22812	Sec. 1, Tp. 40-20-4 and Sec. 36, Tp. 39 20-4.

EXAMINATIONS

471-13	21191	Sec. 34, Tp. 49-22-4.
733-14	14125	Sec. 4, Tp. 50-22-4.
64-15	22284	Secs. 1 and 12, Tp. 50-23-4.
78-15	14319	Check of Survey in Sec. 12, Tp. 45-22-4.
143-15	18101	Sec. 15, Tp. 43-28-4.
171-15	16410	Sec. 36, Tp. 46-19-4.
249-15	20777	Sec. 33, Tp. 40-23-4.
323-15	14034	Sec. 11, Tp. 43-24-4.
332-15	22101	Examination re establishing quarter East of Sec. 29. Tp. 46-23-4.
359-15	22051	Sec. 11, Tp. 50-27-4.
362-15	22595	Secs. 15, 16, 21 and 22, Tp. 43-22-4.
364-15	22656	Secs. 5 and 6, Tp. 43-22-4.
504-15	22197	Sec. 14, Tp. 43-19-4.

DITCH

837-14	19575	Sec. 6, Tp. 45-22-4.
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CHANGES

338-15	14236-C	Sec. 8, Tp. 43-26-4.
652-15	22098-B	Military Point Subdivision, North Cooking Lake, S.W. ¼ of Sec. 12, Tp. 52-21-4.

Edmonton, December 3rd, 1915.

Sir,—I beg to submit the following report regarding field work for the season of 1915.

I organized my party in Edmonton and moved to the Sturgeon River on the 4th of May. After doing all the work required from the Sturgeon River to Athabasca and vicinity, I moved to Lake La Biche the first week of August. From Grandin I worked through, over new trunk road to Therien via St. Lena. Thence I worked south to St. Paul De Metis and north-east to Moose Lake, Durlingville and Cold Lake. I then surveyed new road south to Frog Lake Indian Reserve. I completed this trail about November 15th. I then moved to Edmonton and disbanded my party on November 30th.

Weather conditions were most favourable for field work.

I enclose herewith the following list of surveys completed, classified as "Diversions," "New Roads" and "Examinations."

Your obedient servant,

A. P. C. BELYEA,

District Surveyor and Engineer.

NEW ROADS.

Survey

No.	File	
583-13	21297	Secs. 5, 6, 9 and 13, Tp. 63-4-4 and Secs. 15, 16, 17 and 18, Tp. 63-3-4.
148-14	21370	Tps. 58, 59 and 60, Rgs. 2 and 3-4.
268-14	21631	Sec. 8, Tp. 59-9-4.
269-14	21597	Tp. 59, Rgs. 22 and 23-4.
270-14	21616	Tp. 68-24-4.
520-14	21883	Cold Lake to Beaver Crossing through Tps. 62 and 63-2-4.
545-14	21871	Sec. 29, Tp. 59-23-4.
651-14	14697	Secs. 26 and 36, Tp. 55-24-4 and Sec. 31, Tp. 55-23-4.
862-14	21596	Secs. 14, 15 and 16, Tp. 57-23-4.
15-15	22321	Secs. 23, 26 and 27, Tp. 57-9-4.
121-15	22421	Tps. 66 and 67-24-4.
124-15	22385	Grandin to St. Lena.
182-15	22505	Secs. 2, 3, 4, 8, 9, 10 and 11, Tp. 62-24-4.
184-15	22507	Secs. 16, 17, 18, 19, 20 and 21, Tp. 62-23-4.
223-15	22522	Secs. 29 and 30, Tp. 61-24-4.
618-15	22842	Sec. 18, Tp. 67-23-4 and Sec. 13, Tp. 67-24-4.
623-15	21883	Secs. 24, 26, 27 and 35, Tp. 63-2-4.
628-15	22887	Secs. 22 and 23, Tp. 68-24-4.
629-15	22886	Sec. 13, Tp. 68-22-4 and Sec. 19, Tp. 68-21-4.
644-15	17615	Secs. 3 and 4, Tp. 58-9-4.
811-15	23009	Secs. 21 and 22, Tp. 57-9-4.
814-15	23028	Sec. 23, Tp. 61-6-4.
815-15	23014	Secs. 25, 26 and 30, Tp. 60-7-4 and Secs. 29, 30, 31 and 32, Tp. 60-6-4.
818-15	23037	Secs. 25, 26 and 36, Tp. 61-5-4; Secs. 29, 30, 31, 32, 33, 34, 35 and 36, Tp. 61-4-4 and Secs. 31 and 32, Tp. 61-3-4.
823-15	23060	Secs. 17 and 20, Tp. 61-4-4.
824-15	23059	Secs. 34 and 35, Tp. 62-5-4.
899-15	23139	Sec. 7, Tp. 63-1-4.
145-14	21299	Sec. 15, Tp. 62-2-4.

DIVERSIONS.

288-13	20441	N.W. $\frac{1}{4}$ Sec. 10, Tp. 65-22-4.
197-14	21542	Sec. 17, Tp. 63-23-4.
833-14	22130	Secs. 3 and 10, Tp. 65-22-4.
183-15	22506	Sec. 20, Tp. 62-23-4.
185-15	22504	Sec. 23, Tp. 62-24-4.
186-15	20523	S.W. $\frac{1}{4}$ Sec. 24, Tp. 62-24-4.
222-15	22523	S.W. $\frac{1}{4}$ Sec. 14, Tp. 61-24-4.
224-15	22521	Sec. 27, Tp. 61-24-4.
225-15	22377	S.E. $\frac{1}{4}$ Sec. 15, Tp. 62-24-4.
210-15	22401	N.W. $\frac{1}{4}$ Sec. 26, Tp. 57-25-4.
278-15	14114-B	Sec. 18, Tp. 62-23-4.
340-15	22573	Sec. 31-Tp. 56, and Sec. 6, Tp. 57-23-4.
342-15	22722	Secs. 23 and 24, Tp. 63-23-4.
343-15	22721	Sec. 36, Tp. 65-23-4.
430-15	22762	S.W. $\frac{1}{4}$ Sec. 13, Tp. 62-24-4.
499-15	22725	Sec. 7, Tp. 62-23-4 and Sec. 12, Tp. 62-24-4.
550-15	22810	Secs. 34 and 35, Tp. 67-24-4.
551-15	22811	N.E. $\frac{1}{4}$ Sec. 12, Tp. 67-24-4.
619-15	22843	Sec. 35, Tp. 66-24-4.
620-15	22841	Sec. 14, Tp. 66-24-4.
622-15	20325	N.W. $\frac{1}{4}$ Sec. 25, Tp. 66-24-4.
627-15	20308-C	Secs. 9 and 10, Tp. 67-22-4.
655-15	22953	S.W. $\frac{1}{4}$ Sec. 35, Tp. 67-16-4.
807-15	23015	N. $\frac{1}{2}$ Sec. 25, Tp. 59-6-4.
808-15	22100	Secs. 31 and 36, Tp. 59, Rges. 5 and 6-4.
809-15	22792	S.W. $\frac{1}{4}$ Sec. 15, Tp. 61-10-4.
810-15	23008	N.E. $\frac{1}{4}$ Sec. 4, Tp. 59-9-4.
812-15	23010	N.E. $\frac{1}{4}$ Sec. 35, Tp. 60-10-4.
813-15	23027	N.W. $\frac{1}{4}$ Sec. 36, Tp. 60-6-4.
825-15	23061	E. $\frac{1}{2}$ Sec. 27, Tp. 62-5-4.
826-15	23042	Secs. 14 and 23, Tp. 62-5-4.
827-15	23065	N.E. $\frac{1}{4}$ Sec. 9 and N.W. $\frac{1}{4}$ Sec. 10, Tp. 63-2-4.
828-15	23066	S. $\frac{1}{2}$ Sec. 18, Tp. 63-2-4.

EXAMINATIONS.

Survey		Description.
No.	File.	
196-14	21544	Sec. 1, Tp. 63-24-4.
229-14	21611	S.E. $\frac{1}{4}$ Sec. 16, Tp. 66-23-4.
221-15	22520	Sec. 6, Tp. 61-23-4.
324-15	15029	S.W. $\frac{1}{4}$ Sec. 31, Tp. 66-19-4.
897-15	23099	W. $\frac{1}{2}$ Sec. 6, Tp. 60-9-4.

Vegreville, Alta, December 21, 1915.

L. C. CHARLESWORTH, ESQ.,

Director of Surveys,

Edmonton.

Sir,—I have the honour to submit the following report of the surveys made and other work done in the Districts of Alexandra, Vermilion, Vegreville, Sedgewick, Wainwright, Ribstone, Stettler, Coronation, Hand Hills and Acadia, over which I have had charge during the past season.

The first part of the year was spent in preparing and completing the returns of the previous year's work.

On May 1st I organized my party at Vegreville, and after doing what work was necessary in the vicinity, I moved my outfit southerly to the Grand Trunk Pacific Railway and worked easterly, same to Range 10. From here I worked southerly through Ranges 9, 10, 11 and 12, to the Lacombe branch of the Canadian Pacific Railway. I then worked north-westerly along the south side of the Battle River to Donalda, from which place I worked north-easterly across the Battle River, to the Saskatoon branch of the Canadian Pacific Railway. I then worked southerly through Ranges 14, 15, 16, 17 and 18, to the Calgary and Saskatoon branch of the Canadian Northern Railway, working easterly along same to Range 13. I then worked northerly along the easterly side of Sullivan Lake to Castor, on the Canadian Pacific Railway. I then worked easterly along the Lacombe branch of the Canadian Pacific Railway, and southerly through Ranges 1, 2 and 3, to Township 30.

Completing the work in the south-eastern corner of my district, I moved north along the east boundary of the Province to the Wetaskiwin branch of the Canadian Pacific Railway, and then worked north-westerly along same to Ranges 10 and 11. I then worked northerly through these ranges to the main line of the Canadian Northern Railway, and closed up the season's field operations on November 28th.

Through the territory covered by the season's work, I find that the new Municipalities and Local Improvement Districts are taking an active interest in opening up and improving new roads.

With the exception of a few rainy days in the early part of the year, the season as a whole was favorable in my district for field work.

The work of the past season consists of the survey of new roads, road diversions, drains, examination, reports and estimates.

The following being a list of the various works done:

NEW ROADS.

Survey No.	File.	Description.
243-12	20161	New Road across Sec. 29-37-9-4.
238-12	20895	New Road in Sec. 31-33-5-4.
102-14	21345	New Road in Secs. 22, 23 and 24-31-1-4.
706-14	22069	New Road in W. ½ Sec. 33-43-11-4.
870-14	21963	New Road N. of Secs. 28 and 29-41-5-4.
28-15	22238	New Road N. of Secs. 3, 4, 5, 9 and 10-39-12-4.
135-15	22399	New Road in Sec. 10-49-1-4.
147-15	21754	New Road N. of Secs. 25 to 30-33-5-4.
177-15	22459	New Road N. of Sec. 28-40-10-4.
179-15	15161	New Road in Sec. 17-48-12-4.
319-15	15868-B	New Road N. of Secs. 2, 3, 4, 5 and 6-43-18-4.
593-15	20477-B	New Road N. of Secs. 29 and 30-37-13-4.
411-15	22624	New Road in Sec. 15-38-13-4.
418-15	17886-B	New Road N. of Sec. 14-44-17-4.
497-15	22754	New Road in Sec. 25-39-12-4.
522-15	22661	New Road in Sec. 7-39-14-4.
636-15	22846	New Road N. of Secs. 15 and 16-36-5-4.
765-15	22980	New Road in Sec. 4-42-11-4.
800-15	22874	New Road N. of Secs. 14 and 15-45-10-4.
803-15	23005	New Road in Secs. 2 and 11-43-9-4.
805-15	23026	New Road N. of Secs. 25 and through Secs. 34 and 35-31-1-4.
156-13	15656-C	New Road N. of Sec. 5-41-7-4.
774-15	22894	New Road N. of Secs. 28 and 29-40-6-4.

ROAD DIVERSIONS.

279-10	18449	Diversion W. of Sec. 14-32-17-4.
280-11	19092	Diversion E. of Sec. 13-30-4-4.
571-12	20526	Diversions into Secs. 2, 3, 15 and 21-38-14-4 and into Secs. 34 and 35-37-14-4.
580-12	20545	Diversion W. of Secs. 29 and 32-33-16-4.
436-13	20487	Diversion E. of Secs. 22-33-7-4.
513-13	21153	Diversion bet. Secs. 21 and 28, 20 and 29, 19 and 30-34-16-4.
516-13	21151	Diversion E. of 30 and W. of 17-35-15-4.
601-13	21150	Diversion N. of Sec. 21-35-15-4.
76-14	22594	Diversion S. of Sec. 6-35-16-4.
85-14	21395	Diversion E. of Sec. 24-34-14-4.
86-14	21394	Diversion W. of Sec. 36-36-15-4.
99-14	21342	Diversion N. of Secs. 32 and 33-30-1-4.
100-14	21347	Diversion into Secs. 22, 23 and 27-32-1-4.
101-14	21346	Diversion in Secs. 11, 14 and 15-32-1-4.
103-14	21344	Diversion E. of Secs. 22 and 27-31-1-4.
104-14	21343	Diversion N. of Sec. 33-31-1-4.
106-14	21324	Diversion W. of Sec. 10-32-2-4.
108-14	21326	Diversion North of Sec. 10-31-2-4.
109-14	21327	Diversion bet. Sec. 13-31-3-4 and Sec. 18-31-2-4.
110-14	21328	Diversion W. of Sec. 8-31-2-4.
111-14	21329	Diversion S. of Sec. 26-31-3-4.
112-14	21330	Diversion E. of Sec. 23-32-3-4.
113-14	21331	Diversion E. of Sec. 14-32-3-4.
114-14	21332	Diversion E. of Sec. 9-32-3-4.
115-14	21333	Diversion W. of Sec. 32-30-2-4.
116-14	21335	Diversion E. of Sec. 26 and W. of Sec. 36-30-3-4.
117-14	21336	Diversion into Secs. 23 and 26-30-3-4.
118-14	21337	Diversion S. of Sec. 2-31-3-4.
119-14	21339	Diversion S. of Sec. 4-31-2-4 and Sec. 5-3-2-4 and N. of Sec. 31-30-2-4.
120-14	21338	Diversion N. of Sec. 32-30-3-4.
121-14	21341	Diversion S. of Sec. 17-30-1-4.
215-14	21589	Diversion Secs. 5 and 6-34-8-4 and E. of Sec. 31-33-8-4.
246-14	21625	Diversion W. of Secs. 5 and 6-42-17-4.

Survey No.	File.	Description.
262-14	21630	Diversions through Secs. 6, 19 and 30-32-4-4 and Secs 1, 13, and 36-32-5-4.
329-15	21656	Diversion in Sec. 25-46-12-4 and Sec. 30-46-11-4.
386-14	21749	Diversion into Secs. 3 and 4-32-16-4.
387-14	21750	Diversion W. of Sec. 13-32-17-4.
388-14	21752	Diversion E. of Sec. 33-32-16-4.
389-14	21751	Diversion S. of Sec. 15-32-17-4.
390-14	21786	Diversions N. of 35-31-16-4.
391-14	21727	Diversion N. of Sec. 9-35-5-4.
392-14	20732	Diversion W. of Sec. 7-35-4-4.
393-14	20731	Diversion into Secs. 11 and 14-35-5-4.
394-14	21753	Diversion W. of Sec. 36-33-18-4.
499-14	21882	Diversion W. of Sec. 1-39-14-4.
575-14	21944	Diversion W. of Sec. 30-35-12-4.
576-14	21943	Diversion W. of Sec. 5-35-12-4.
577-14	21116	Diversions E. of Sec 33 and W. of Sec. 34-35-12-4.
630-14	22015	Diversion E. of Secs. 13 and 24-34-4-4.
632-14	21990	Diversion S. of Sec. 18-32-16-4 and E. of Secs. 12 and 13-32-17-4.
705-14	22070	Diversion E. of Sec. 21-39-12-4.
707-14	22068	Diversion W. of Sec. 7-42-10-4.
708-14	22067	Diversions S. of Sec. 4-43-11-4 and through Sec. 32-42-11-4.
709-14	22066	Diversion N. of Sec. 36-41-11-4 and Sec. 31-41-10-4.
710-14	22065	Diversion N. of Sec. 7-41-11-4.
711-14	22064	Diversion N. of Sec. 35-40-11-4.
712-14	22071	Diversion W. of Sec. 12-43-12-4.
713-14	22063	Diversion S. of Sec. 25-40-11-4.
715-14	22061	Diversion N. of Sec. 31-41-10-4.
716-14	22060	Diversion E. of Secs. 10 and 15-41-10-4.
717-14	22073	Diversion E. of Sec. 24-49-15-4.
723-14	22112	Diversions E. of Sec. 28 and W. of Sec. 34-31-14-4.
726-14	22105	Diversion W. of Sec. 24-35-4-4.
735-14	22108	Diversion S. of Sec. 15-45-16-4.
834-14	22222	Diversion S. of Sec. 27-43-17-4.
870-14	21963	Diversion N. of Sec. 29-41-5-4.
23-15	22354	Diversion W. of Sec. 9-45-11-4.
26-15	22353	Diversion N. of Sec. 7-45-11-4.
261-15	22572	Diversions into Secs. 1 and 2-39-12-4.
283-15	15281-B	Diversion into Sec. 7-43-9-4.
284-15	18446-B	Diversion into Sec. 12-43-10-4.
285-15	21213	Diversion W. of Sec. 30-49-11-4.
330-15	22602	Diversion into Sec. 1-47-12-4 and Sec. 6-47-11-4.
344-15	22047	Diversion W. of Sec. 21-40-7-4.
394-15	15877	Diversions S. of Sec. 16-40-16-4.
404-15	22652	Diversion W. of Sec. 3-42-1-4.
405-15	22708	Diversion into Secs. 11 and 14-43-11-4.
406-15	22627	Diversion W. of Sec. 6-40-13-4.
407-15	22625	Diversion N. of Sec. 36-39-14-4.
408-15	22629	Diversion E. of Sec. 9-38-14-4.
409-15	22623	Diversion E. of Sec. 9-39-14-4.
410-15	22626	Diversions E. of Sec. 31-38-13-4.
429-15	22628	Diversion W. of Sec. 29-38-15-4.
496-15	22740	Diversion E. of Sec. 3-45-11-4.
497-15	22754	Diversion into Secs. 13, 14, 24 and 25-39-12-4.
503-15	20139	Diversion W. of Sec. 2-41-11-4.
520-15	22744	Diversion N. of Sec. 11-41-4-4.
882-15	23063	Diversion E. of Sec. 28-39-3-4.
555-15	22824	Diversion N. of Sec. 22-36-14-4.
588-15	20342	Diversion E. of Secs. 17 and 20-44-10-4.
597-15	22804	Diversion into Sec. 32-40-3-4 and Sec. 5-41-3-4.
599-15	22763	Diversion W. of Sec. 20-38-8-4 and in Secs. 21, 28 and 29-38-8-4.
600-15	22815	Diversion W. of Sec. 22-31-14-4.
636-15	22846	Diversion into Secs. 6, 7, 16, 17, 18, 21, 22 and 27-36-5-4.
637-15	22912	Diversion E. of Secs. 12-33-15-4.
645-15	22630	Diversion into Secs. 6, 7 and 8-39-15-4.
650-15	22981	Diversion W. of Sec. 17-33-6-4.
651-15	22982	Diversion N. of Sec. 11-35-6-4.

Survey

No.	File.	Description.
763-15	22979	Diversion S. of Sec. 29-40-10-4.
764-15	18030-B	Diversion N. of Sec. 16-42-8-4.
765-15	22980	Diversion into Sec. 9-42-11-4.
766-15	22883	Diversions across Secs. 21, 22, 27, 35 and 36-43-9-4.
767-15	22884	Diversion W. of Sec. 29-42-9-4.
773-15	22868	Diversion N. of Sec. 11-45-11-4.
794-15	22866	Diversions W. of Sec. 14 and S. of Sec. 15-45-10-4.
797-15	22871	Diversion into Secs. 31 and 32-46-11-4.
798-15	22872	Diversions into Secs. 13, 14, 23 and 24-46-10-4.
799-15	22873	Diversions into Secs. 2 and 11-46-10-4.
800-15	22874	Diversions into Secs. 14, 15, 22 and 23-45-10-4.
806-15	23024	Diversions N. of Secs. 7 and 8-31-1-4.
821-15	23054	Diversion East of Sec. 25-40-11-4.
848-15	23055	Diversion into Secs. 29, 30 and 31-45-5-4.
817-15	18520	Diversion S. of Sec. 11-39-1-4.
236-15	22691	Diversions in Secs. 11, 12, 13, 14 and 15-46-10-4.

EXAMINATIONS, ETC.

299-12	20233	Report Council does not want survey made across Secs. 3, 4, 5, 7 and 8-41-16-4.
600-13	21149	Examination and report found diversion surveyed N of Sec. 22-34-15-4.
107-14	21325	Examination and report road bet. 24 and 25-31-2-4.
212-14	20201	Examination and report found Witness Corner, N. of Sec. 2-38-14-4 correct.
122-14	21340	Examination and report re road bet. Secs. 27 and 28-30-2-4.
562-14	18698	Examination and report road N. of Sec. 6-39-12-4 to remain as surveyed.
670-14	22042	Examination and report road through Secs. 2 and 11-36-6-4.
403-15	22672	Examination and report road S. of Sec. 2-47-12-4.
523-15	22577	Examination and report road diversion asked for E. of Sec. 27-50-11-4, location wrong.
285-15	21213	Examination and report re diversion in Sec. 30-49-11-4.
929-15	21858	Examination and report re diversion in Sec. 30-48-17-4, no resolution by council.
645-15	22630	Examination and report re roads in Secs. 7, 8 & 18-39-15-4.
348-15	17714	Examination and report re road in Sec. 33-38-15-4.

DRAINS

25-15	19578	Staked and reported drain in Secs. 4, 5 and 6-49-16-4.
178-15	19582	Staked and reported drain in Secs. 20, 21 and 28-48-16-4.
287-15	21060	Staked and reported drain in Sec. 27-42-17-4.
390-15	19589	Staked and reported drain across Sec. 10-40-16-4.
646-15	19598	Staked and reported drain in Secs. 19-30-14-4 and 24-20-15-4.
771-15	19596	Examination re drain in Tp. 39-1-4.

OTHER WORK.

971-15	19310-B	Dug pits on diversion E. of Sec. 17-43-9-4.
213-14	18565	Checked diversion in Secs. 16 and 17-38-9-4 for A. G. S.
180-15	22089	Rechecked diversion in Sec. 19-40-6-4.

Progress reports and sketches were forwarded to the Department at the time the surveys and examinations were made.

A number of plans and final returns have already been forwarded to the Department, the remainder are now in course of preparation.

Your obedient servant,

(Sgd.) L. T. BRAY,

District Surveyor and Engineer.

Edmonton, Alta., 31st December, 1915.

Sir,—My party left Raymond on the first of May and proceeded to the vicinity of New Dayton, in Township five, Range eighteen, West of the Fourth Meridian, where field work was commenced. The route followed was by way of Warner to Milk River, thence easterly along the north side of Milk River to the steel bridge in Section four, Township two, Range twelve, West of the Fourth Meridian, where we crossed to the south side and continued easterly into Range ten. We then turned westerly along the south side of Milk River, making necessary surveys as far as Range seventeen. We then moved to Range twenty-two and surveyed a road from Township one to Township four, in Range twenty-two, West of the Fourth Meridian. From there we moved to the steel bridge over the Waterton River, in Section thirty-one, Township five, Range twenty-six, West of the Fourth Meridian, where we made survey of road diversion to the steel bridge while the horses rested. After that we proceeded to the work of surveying a road along the north side of Castle River, in Township six, Ranges two and three, West of the Fifth Meridian. We then worked through Townships five and six, Ranges one and two, West of the Fifth Meridian, thence easterly through Townships five and six, Ranges twenty-six, twenty-seven, twenty-eight, twenty-nine and thirty, West of the Fourth Meridian, ending the season's work at the steel bridge over Belly River, in Section six, Township five, Range twenty-six, West of the Fourth Meridian. We then took the outfit to Raymond where it was stored for the winter, on the twenty-fourth day of December.

The season's work has been very much broken on account of the incessant rains during the months of May, June, July and August, and in consequence as much territory was not covered as we had expected.

Below is a list of surveys and examinations:

DIVERSIONS.

Survey		Description.
No.	File.	
132-10	18269	N. of Secs. 20 and 21-2-14-4.
85-15	18854	N. E. $\frac{1}{4}$ Sec. 8-5-17-4 (check).
160-11	18951	Through Secs. 26. 34 and 35-5-2-5.
345-11	19150	Secs. 11, 14 and 15-6-17-4.
32-12	19424	W. $\frac{1}{2}$ Sec. 17-10-16-4.
267-12	20164	Sec. 12-6-28-4 and Sec. 7-6-27-4.
351-12	20262	S. $\frac{1}{2}$ Sec. 29-3-17-4.
16-13	20630	Secs. 16 and 21-2-16-4.
23-13	20712	N. W. $\frac{1}{4}$ Sec. 34-9-24-4.
349-13	21046	Secs. 7, 17 and 18-5-28-4.
432-14	21790	N. E. $\frac{1}{4}$ Sec. 5-6-27-4.
494-14	21840	Sec. 20-4-17-4 (check).
495-14	21841	Secs. 2 and 11-2-16-4.
565-14	21923	S. W. $\frac{1}{4}$ Sec. 19-6-16-4.
569-14	21964	S. W. $\frac{1}{4}$ Sec. 7-5-17-4.
570-14	21842	N. E. $\frac{1}{4}$ Sec. 5-2-16-4.
639-14	21983	Sec. 31-2-15-4 and Sec. 36-2-16-4.
87-15	22375	S. E. $\frac{1}{4}$ Sec. 3-2-16-4.
91-15	22410	S. W. $\frac{1}{4}$ Sec. 9-13-17-4.
164-15	22454	Secs. 12, 13 and 14-1-12-4 and Sec. 7-1-11-4.
165-15	22455	N. W. $\frac{1}{4}$ Secs 8-1-11-4.
282-15	22591	N. E. $\frac{1}{4}$ Sec. 20-4-18-4.
307-15	14759	S. $\frac{1}{2}$ Sec. 8-6-27-4.
370-15	22659	N. E. $\frac{1}{4}$ Sec. 10 and S. E. $\frac{1}{4}$ Sec. 15-1-17-4 and N. E. $\frac{1}{4}$ 11-1-17-4.

Survey No.	File.	Description.
371-15	22657	S. W. $\frac{1}{4}$ 28-1-17-4.
376-15	22658	S. E. $\frac{1}{4}$ Sec. 8-1-17-4.
427-15	22704	S. E. $\frac{1}{4}$ Sec. 32 and N. W. $\frac{1}{4}$ Sec. 33-4-18-4.
498-15	22737	S. W. $\frac{1}{4}$ Sec. 8-3-16-4.
526-15	22429	S. E. $\frac{1}{4}$ Sec. 18 and N. E. $\frac{1}{4}$ Sec. 7-5-28-4 and 12 and 13-5-29-4.
549-15	22809	N. W. $\frac{1}{4}$ Sec. 35-1-16-4.
643-15	22955	Sec. 31-5-26-4 and Sec. 36-5-27-4.
649-15	20578	E. $\frac{1}{2}$ Sec. 27-1-12-4.
665-15	23105	Secs. 22, 26 and 27-1-12-4.
711-15	16414-B	N. E. $\frac{1}{4}$ Sec. 11-6-30-4.
935-15	23122	S. W. $\frac{1}{4}$ Sec. 22-1-12-4.
936-15	23123	S. $\frac{1}{2}$ Sec. 15-1-11-4.
937-15	22858	S. $\frac{1}{2}$ Sec. 17-14-18-4.
976-15	23176	Bet. Secs. 12 and 13-5-29-4.

NEW ROADS.

381-09	14638-B	N. Secs. 29 and 30-5-26-4.
175-13	20863	Through Tp. 6-2/3-5.
176-13	20864	Secs. 3, 10 and 15-6-2-5.
496-13	21224	Sec. 34-1-12-4 and Secs. 4 and 9-2-12-4.
57-14	18106-B	Secs. 7 and 6-10-23-4.
210-14	21466	Tps. 1 to 4-22-4.
493-14	17546-B	N. Secs. 3, 4 and 5-4-17-4.
976-14	20156	Through Secs. 19, 20 and 21-2-14-4.
3-15	22348	Through 8, 16 and 17-6-2-5.
95-15	18748-B	N. Sec. 27-5-17-4.
320-15	22611	Through Sec. 5-1-15-4 and Sec. 7-1-15-4.
602-15	18513	From N. E. corner Sec. 2-5-27-4 to W. bdry. Sec. 1-5-28-4.
642-15	19006	Through Secs. 29 28 and N. of 27, 26 and 25-2-14-4.
939-15	14562	Through Sec. 32-6-19-4.

EXAMINATIONS.

431-09	18014	N. of Sec. 8-4-17-4.
431-12	14228-E	In Sec. 3-6-27-4.
7-13	20643	N. of Sec. 22-1-13-4.
157-13	15562	S. of Sec. 27-5-29-4.
173-13	20883	E. of Sec. 12-6-29-4.
245-13	20907	S. W. $\frac{1}{4}$ Sec. 8-6-28-4.
568-13	14201	N. E. $\frac{1}{4}$ Sec. 10-6-30-4.
52-14	21448	Sec. 30-9-2-5.
157-14	21571	In Sec. 26-5-29-4.
314-14	21698	In Sec. 3-1-12-4.
431-14	21792	In N. W. $\frac{1}{4}$ Sec. 34-5-28-4.
563-14	21924	Between 13 and 14-6-17-4.
564-14	21922	In N. E. $\frac{1}{4}$ Sec. 36-4-18-4.
566-14	21925	In Secs. 15 and 16-6-17-4.
377-15	14167	In Sec. 26-6-30-4.
634-15	22930	In Secs. 13 and 24-1-13-4.
430-15	22477	In Sec. 9-15-19-4.
883-15	23085	In Secs. 22, 28 and 33-5-2-5.
940-15	14120	In N. W. $\frac{1}{4}$ Sec. 22-6-30-4.
941-15	14367	Crossing of Pincher Creek in Sec. 35-5-1-5.
942-15	22427	In Secs. 29, 30 and 31-9-21-4.
633-15	19101-B	Check N. $\frac{1}{2}$ 6-1-12-4.
280-15	19491	Check S. E. $\frac{1}{4}$ Secs. 19 and 20-4-16-4.

CROSS-SECTIONS

933-15	22759	Of Milk River in Sec. 12-2-14-4.
	2403	
934-15	8077	Of Milk River in Sec. 29-1-10-4.

RESERVOIR SITES.

Survey	No.	File.	Description.
931-15	14072-394	8368	In N. W. $\frac{1}{4}$ Sec. 28-11-19-4.
932-15	14072-398	8368	In E. $\frac{1}{2}$ Sec. 33-11-22-4.

Your obedient servant,

R. J. GORDON,

District Surveyor and Engineer.

Edmonton, Alberta, December 22nd, 1915.

Sir,—I am attaching hereto detailed report showing the work done in my district of North Alberta during the past season.

I organized my party and took the field on May 12th.

Starting with work at St. Albert I moved west, from there completing work around Spruce Grove and Stony Plain, Carvel, Mewassin, etc.

From these points I moved towards Wabamun and from there down into the Tomahawk country, and after completing all the work asked for around there, I proceeded towards Entwistle, where I had a considerable amount of work.

I then moved east again as far as Bibly, and from there north via Sion, Belvedere, Lawton, Mossie, Linnfield and Campsie, in all of which localities considerable work was required.

From Campsie I moved east, completing work at Barrhead, Manola and Sunieband; made some examinations at Casavant, and from there proceeded to St. Albert where one more examination was made.

The season being well advanced and any further work lying a considerable distance away, I moved my outfit into Edmonton and disbanded my party on November 27th.

Since that time I have made survey of the Parliament Building site.

The season on the whole has been very favorable for the carrying on of the work, very little time being lost due to rainy weather, etc., and the absence of snow towards the end of the season rendering transportation for wagons much more expeditious.

Your obedient servant,

P. N. JOHNSON,

District Surveyor and Engineer.

L. C. CHARLESWORTH, ESQ.,
Deputy Minister of Public Works,
 Edmonton, Alta.

NEW ROADS

Survey No.	File.	Description.
90-12	18282	Across Sec. 13 and S. W. $\frac{1}{4}$ Sec. 24-51-27-4.
657-13	21364	Across Secs. 13, 14, 21, 22, 23, 29 and 30-58-4-5.
19-14	15949-B	Along blind line N. of Sec. 14-51-27-4.
25-14	20737	Along blind line N. of Secs. 26 and 27-52-5-5.
193-14	21680	Along blind line N. of Sec. 6-61-26-4 and N. of Secs. 1 and 2-61-27-4.
205-14	21576	Across Secs. 2 and 11-52-27-4.
291-14	21660	Across Secs. 13, 24, 26, 27, 28 and 33-59-5-5.
417-14	21793	Along blind line N. of Secs. 13, 14 and 15-53-7-5.
490-14	21826	Across Sec. 25-52-2-5.
491-14	21827	Across Secs. 34, 35 and 36-52-2-5.
230-15	21896	Along blind line N. of Secs. 25, 26, 27, 28 and 29-54-1-5.
236-15	22487	Across Secs. 23, 25 and 36-51-6-5.
238-15	22485	Across Secs. 26, 27, 34 and 35-50-5-5.
259-15	23530	Across Lots 61, 62, 63 and 64, St. Albert Settlement.
293-15	22620	Across Sec. 5-59-2-5.
341-15	22644	Between E. and W. halves Secs. 18 and 19-53-7-5.
346-15	22718	Between N and S. halves Sec. 36-53-7-5.
517-15	22747	Along blind line N. of Sec. 1-57-3-5.
611-15	21667	Across Secs. 29 and 30-58-4-5 and Sec. 25-58-5-5.
614-15	21938	Across Secs. 25 and 36-58-5-5.
638-15	22952	Along line between N. and S. halves of Sec. 19-53-7-5.
658-15	22956	Across Secs. 20 and 29-53-7-5.
660-15	15117-C	E. $\frac{1}{2}$ Sec. 21-53-7-5.

ROAD DIVERSIONS.

90-12	18282	Diversions in Secs. 26, 35 and 36-51-27-4.
532-13	21243	Diversions N. of Secs. 34, 35 and 36-53-1-5.
519-13	21291	Diversions in Secs. 25 and 36-53-28-4 and in Sec. 36-53-1-5
11-14	21475	Diversions in Secs. 25, 26 and 36-59-4-5.
172-14	21530	Diversion in N. $\frac{1}{2}$ Sec. 7-59-1-5.
255-14	21638	Diversion in Sec. 12-57-3-5.
289-14	21661	Diversion in N. W. $\frac{1}{4}$ Sec. 12-59-4-5.
290-14	21663	Diversion in N. W. $\frac{1}{4}$ Sec. 12-59-2-5.
868-14	21665	Diversion in N. E. $\frac{1}{4}$ Sec. 19-58-4-5.
54-15	22347	Diversion in Secs. 11 and 14-53-2-5.
237-15	22486	Diversions in Secs. 6, 7 and 8-51-5-5.
239-15	22376	Diversion N. of Sec. 9-51-2-5.
347-15	21367-B	Diversion in N. W. $\frac{1}{4}$ Sec. 19 and S. $\frac{1}{2}$ Sec. 30-53-7-5.
349-15	22731	Diversion in S. $\frac{1}{2}$ Sec. 1-52-27-4.
514-15	22746	Diversions in Secs. 7 and 17-59-2-5.
515-15	22745	Diversion in N. W. $\frac{1}{4}$ Sec. 13-57-2-5.
516-15	22748	Diversion bet. Secs. 24 and 25-57-2-5.
547-15	22821	Diversions in Secs. 11, 12 and 13-51-2-5.
548-15	22822	Diversion in N. E. $\frac{1}{4}$ Sec. 33-51-2-5.
609-15	22749	Diversion in Secs. 21 and 30-57-1-5.
610-15	22784	Diversion in S. $\frac{1}{2}$ Sec. 1-53-2-5.
617-15	22847	Diversion in Sec. 23-51-6-5.
625-15	22875	Diversion in Secs. 15 and 22-51-6-5.
639-15	22951	Diversion in N. W. $\frac{1}{4}$ Sec. 33-50-5-5.
659-15	22954	Diversions in Secs. 1 and 12-52-5-5.
668-15	22644	Diversions in Secs. 29 and 30-53-7-5.
831-15	20985	Diversions in Secs. 19, 21, 22, 23, 24, 26, 28, 29 and 30-59-4-5 and Sec. 25-59-5-5.
916-15	16065	Diversion in Sec. 7-53-3-5.

CHANGES IN PREVIOUSLY SURVEYED ROADS.

492-14	21359	Change in surveyed road in N. W. $\frac{1}{4}$ Sec. 20-59-2-5.
229-15	19228	Change in surveyed road in Sec. 16-59-4-5.
345-15	15117-B	Change in surveyed road in Sec. 20-54-4-5.
354-15	20635-B	Change in surveyed road in Sec. 24-54-7-5.
621-15	18750	Change in diversion in N. E. $\frac{1}{4}$ Sec. 34-51-2-5.
833-15	20374	Change in surveyed road in N. E. $\frac{1}{4}$ Sec. 32-59-3-5.
51-15	15561	Change in surveyed road in S. E. $\frac{1}{4}$ Sec. 10-61-27-4.
977-15	15117-E	Change in surveyed road in N. W. $\frac{1}{4}$ Sec. 22-53-7-5.

DEPARTMENT OF PUBLIC WORKS

EXAMINATIONS

(Survey found to be unnecessary.)

Survey		Description.
No.	File.	
23-14	21455	Proposed diversion bet. Secs. 20 and 21-52-2-5.
24-14	21456	Proposed diversion S. of Sec. 2-53-2-5.
28-14	21527	Proposed diversions E. of Secs. 6 and 7-58-3-5.
173-14	21529	Proposed diversion bet. N. E. $\frac{1}{4}$ Sec. 4 and S. E. $\frac{1}{4}$ Sec. 9-53-2-5.
841-14	19138-B	Proposed diversion E. of Sec. 35-51-3-5.
53-15	22326	Old trail across fractional N. E. $\frac{1}{4}$ Sec. 14-55-1-5.
110-15	15846	Proposed change in surveyed road in S. W. $\frac{1}{4}$ Sec. 29-52-1-5
112-15	15117	Proposed change in surveyed road in S. W. $\frac{1}{4}$ Sec. 16-54-5-5.
231-15	19138-C	Proposed diversion in S. E. $\frac{1}{4}$ Sec. 2-52-3-5.
353-15	18964-B	Proposed change in surveyed road in Sec. 9-53-7-5.
830-15	22423	Proposed road diversion bet. Secs. 23 and 24-57-26-4.

OTHER EXAMINATIONS.

416-13	19440	Proposed road diversion bet. N. and S. halves of Secs. 32 and 33-51-26-4.
29-14	21526	Proposed road around W. shore of Lac La Nonne in Secs. 12, 13, 14, etc., Tp. 57-3-5.
254-14	21637	Proposed road in the S. W. $\frac{1}{4}$ Sec. 11-58-3-5.
59-15	22324	Examination re proposed G. T. P. diversion at Duffield.
334-15	20032	Re leasing of road allowance N. of N. W. $\frac{1}{4}$ Sec. 10-58-2-5.
518-15	22693	Proposed diversion in S. W. $\frac{1}{4}$ Sec. 3-53-7-5.
924-15	15117	Examination re closing road allowance N. of N. W. $\frac{1}{4}$ Sec. 22-53-7-5.

MISCELLANEOUS.

925-15	2922-C	Surveying Saskatchewan Avenue Diversion, Edmonton.
926-15	2922-C	Surveying Parliament Building Site, Edmonton.

Edmonton, December 28th, 1915.

Sir,—I have the honour to submit the following report of the work performed by myself and party during the season of 1915 in the District of North Alberta.

I organized my party at Edmonton on May 14th, and travelled over the Edmonton and Dunvegan line as far as Reno and drove from there to Peace River Crossing. As my teams and outfit had already arrived there, having travelled around by way of Dunvegan from Grande Prairie City, I started to work at once on the crossing and Bear Lake Trail. On completing this survey I worked west to Dunvegan and on south to Spirit River. Just as I had finished the work in this vicinity, I received a wire instructing me to move to High Prairie, so I started on the 200 mile move, reaching High Prairie on July 30th. After completing the surveys in this part of the country, I worked towards Grouard, and on to Big Prairie, making surveys of parts of the White Fish Lake and Round Lake Trails during this time. I then moved to Swan River and made a survey of the Swan Hill Trail and finished the season on a couple of small surveys in the settlement.

The following is a list of the surveys and examinations.

I have the honour to be, sir,

Your obedient servant,

E. D. ROBERTSON,

District Surveyor and Engineer.

L. C. CHARLENWORTH, ESQ.,

Director of Surveys,

Edmonton, Alta.

NEW ROADS.

Survey No.	File.	Description.
450-14	18791-D	Sturgeon Lake Trail across Tp. 74-17-5.
703-14	22088	New Road N. of Secs. 25 to 28-77-6-6.
117-15	22357	Bear Lake Trail across Tp. 83-22/23-5.
247-15	18791	New Road across N. W. fr. Sec. 18-75-14-5 & I. R. No. 150-A.
884-15	23089	New Road across Lots 7 and 8. Spirit River Settlement.
835-15	23088	New Road across N. W. fr. Sec. 15-78-6-6.
886-15	23087	New Road in Secs. 3, 4, 9 and 10-78-6-6.
888-15	23092	New Road across Lot 15, Tp. 78-5-6.
891-15	23093	New Road across Secs. 13, 24, 25 and 36-75-17-5.
900-15	23104	New Road across Indian Reserve No. 150-D.
901-15	23103	Round Lake Trail across Tp. 76-16-5.
902-15	23102	White Fish Lake Trail across Tps. 76 and 77-14-5.
904-15	23108	Swan Hill Trail across Tp. 73-10-5 and Tps. 73 and 74-9-5.
920-15	23130	New Road in Indian Reserve No. 150-E and Sec. 1-74-10-5.
921-15	23131	New Road in Sec. 17-76-16-5.

DIVERSIONS

887-15	23086	Diversion in S. of Sec. 29-74-16-5.
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CHANGES IN SURVEY

6-14	19454-B	Change in survey in Sec. 18-74-16-5.
7-14	18791-C	Change in survey in Secs. 19, 29 and 30-74-15-5 and Sec. 13-74-16-5.
889-15	23090	Change in survey in Lots 46, 47, 48 and 49, Spirit River St.
890-15	23091	Change in survey in Lots 1, 2 and 3, Spirit River Settlement.
892-15	18791	Change in survey in Sec. 11-74-16-5.

EXAMINATIONS.

118-15	18791-E	Examination W. and N. of Sec. 13-74-16-5.
915-15	23128	Examination W. of Secs. 18 and 19-74-16-5.
922-15	23135	Examination across Secs. 29 to 25-83-22-5 and Secs. 31 and 30-83-21-5.
923-15	23136	Examination across Secs. 10 and 11-83-23-5.
973-15	6818	Examination in River Lots 37 and 38, Spirit River Settmt.
974-15	7460	Examination W. of Secs. 6 and 7-73-5-5 and cross section of Lesser Slave River at Sawridge.
975-15	12576	Examination N. of Sec. 32 and E. of Secs. 29 and 32-74-16-5.

Lacombe, Alta., Dec. 31st, 1915.

Sir,—I have the honour to submit the following report in connection with the work done in the Lacombe Public Works district during the year 1915, and attached hereto is a tabulated list and

classified as "New Roads," "Road Diversions," "Examinations," "Drains" and "School Sites".

At the beginning of the year my time, as usual, was devoted to preparing the returns of the previous season's surveys. As soon as all returns were completed, I made a number of examinations during April, and this action had the result of the saving of considerable time after organizing my party. I organized on the 3rd day of May, somewhat later than former years, and moved toward Delburne, where a number of surveys had been left over from last season. From here I pulled to Big Valley and after making a number of surveys in that vicinity, I made back again across the Content bridge to the west side of the Red Deer river and made surveys at Lousana, Pine Lake, Elnora, Huxley and Trochu. This completed the surveys in the eastern part of my district and I then moved to the west of Olds. This particular territory was added to my district last year and in it there was a number of surveys which had been outstanding for a good many years; these I attended to and then pulled to Innisfail, Penhold and Markerville. This was about the middle of September and as the season was well advanced, I decided to spend the balance of the season making surveys leading into Rocky Mountain House. I completed the survey of new road from Rocky Mountain House to the Prairie Creek Settlement, also surveyed the road west of the Saskatchewan River. This is a good part of the district to work in the fall as the country is covered with heavy timber. There was so much work in this neighborhood that surveys to the north had to be left over. The country around Leslieville was not covered and I will try and catch this work early next spring. On account of incessant rains, the season on a whole was very unfavorable for field operations.

I disbanded on the 2nd day of December and the balance of the year was spent in preparing plans and field notes.

Your obedient servant,

A. S. STEWART,

District Surveyor and Engineer.

L. C. CHARLESWORTH, Esq.,

Director of Surveys,

Edmonton, Alta.

NEW ROADS.

Survey No.	File.	Description.
816-15	19013	New Road in Secs. 35/36-37-8-5 and Secs. 31/32-37-7-5.
211-12	20038	New Road in N. W. 1, S. W. 12, N. $\frac{1}{2}$ 2, N. E. 3, W. $\frac{1}{2}$ 11 and S. E. 11-40-27-4.
259-13	20919	New Road along blind line bet. Secs. 16 and 21-36-20-4.
465-13	20648	New Road along blind line N. of Secs. 13/14 and change in N. W. 14-39-7-5.
537-14	21877	New Road along the W. side of the Saskatchewan River across Secs. 28/33-53-7-5 and Secs. 4, 5, 6, 7-40-7-5 and N. E. 12 and S. E. 13-40-8-5.
826-14	22170	New Road along blind line N. of Sec. 29-33-22-4.
145-15	22388	New Road in Secs. 6 and 7-38-8-5.

Survey

No.	File.	Description.
250-15	22490	New Road in Secs. 5 and 8-38-7-5.
253-15	22491	New Road along blind line bet. Secs. 16 and 21-38-7-5.
388-15	19176	New Road along $\frac{1}{4}$ line through centre of Sec. 6-34-22-4.
553-15	20295	New Road along blind line bet. Secs. 16 and 21, 17 and 20 and 18 and 19-33-5-5.
581-15	22775	New Road in Secs. 26 and 35-39-7-5.
910-15	22408	New Road on the W. side of the Saskatchewan River W. from Rocky Mountain House across Tps. 39/40-7/8-5.

DRAINS.

825-14	19574	Drain in N. W. $\frac{1}{4}$ Sec. 1-38-26-4.
248-15	14845	Drain in N. E. $\frac{1}{4}$ Sec. 23-36-28-4.

SCHOOL SITES.

631-15	22862	School site in S. E. $\frac{1}{4}$ Sec. 15-35-24-4.
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DIVERSIONS.

223-08	15969	Diversion in S. W. $\frac{1}{4}$ Sec. 3 and S. $\frac{1}{2}$ Sec. 4-37-2-5.
919-15	16159	Diversion in S. W. $\frac{1}{4}$ Sec. 14-23-4-5.
495-08	16372	Diversion in N. E. $\frac{1}{4}$ Sec. 28-34-23-4.
475-09	18053	Diversion in N. E. $\frac{1}{4}$ Sec. 19-34-22-4.
511-09	18079	Diversion in N. $\frac{1}{2}$ Sec. 21-33-23-4.
428-10	18576	Diversion in N. E. $\frac{1}{4}$ Sec. 6 and N. W. $\frac{1}{4}$ Sec. 8-35-2-5.
502-10	18598	Diversion in S. $\frac{1}{2}$ Sec. 1-33-23-4.
488-11	19358	Diversion N. of Secs. 7 and 8-36-3-5.
182-12	20116	Diversion in N. E. $\frac{1}{4}$ Sec. 32-36-23-4 and S. W. $\frac{1}{4}$ 4 and S. E. $\frac{1}{4}$ 5-37-23-4.
550-12	20516	Diversion in N. E. 36-36-24-4 and W. $\frac{1}{2}$ Secs. 6 and 7-37-23-4.
554-12	20518	Diversion in E. $\frac{1}{2}$ Sec. 16 and N. E. $\frac{1}{4}$ Sec. 9-37-24-4.
1-13	15814-B	Diversion in S. E. $\frac{1}{4}$ 3-34-5-5.
262-13	20916	Diversion in N. W. Sec. 23 and W. $\frac{1}{2}$ Sec. 26-36-20-4.
267-13	20923	Diversion in S. $\frac{1}{2}$ Sec. 25, N. $\frac{1}{2}$ Sec. 21, S. W. $\frac{1}{4}$ Sec. 28, N. E. $\frac{1}{4}$ Sec. 20 and S. $\frac{1}{2}$ Sec. 29-36-21-4.
44-14	21474	Diversion in S. E. $\frac{1}{4}$ Sec. 1-35-4-5.
49-14	21447	Diversion in N. W. $\frac{1}{4}$ Sec. 13, E. $\frac{1}{2}$ Sec. 23, W. $\frac{1}{2}$ Sec. 24, S. W. $\frac{1}{4}$ Sec. 25 and S. E. $\frac{1}{4}$ Sec. 26-36-21-4.
597-14	21743	Diversion in S. $\frac{1}{2}$ Sec. 1 and S. E. $\frac{1}{4}$ Sec. 2-37-24-4 and N. W. $\frac{1}{4}$ Sec. 36-36-24-4.
917-15	18206-B	Diversion in N. E. Sec. 21 and N. W. Sec. 22-37-19-4, change.
580-14	21952	Diversion in S. E. Sec. 21-35-26-4.
824-14	22119	Diversion in E. $\frac{1}{2}$ Sec. 31-36-25-4.
828-14	22203	Diversion in N. E. $\frac{1}{4}$ Sec. 23-35-3-5.
829-14	22202	Diversion in N. W. $\frac{1}{4}$ Sec. 13 and S. E. $\frac{1}{4}$ Sec. 23-35-1-5.
836-14	14642	Diversion in S. E. $\frac{1}{4}$ Sec. 25-40-23-4, change.
871-14	21958	Diversion in S. W. $\frac{1}{4}$ Sec. 15-34-25-4.
40-15	22274	Diversion in N. W. $\frac{1}{4}$ Sec. 11-34-3-5.
146-15	22397	Diversion in N. E. $\frac{1}{4}$ Sec. 9 and S. E. $\frac{1}{4}$ Sec. 16-35-19-4.
251-15	22494	Diversion in N. W. $\frac{1}{4}$ Sec. 22-39-7-5.
257-15	22443	Diversion in N. W. $\frac{1}{4}$ Sec. 11-35-25-4.
337-15	22618	Diversion in S. W. $\frac{1}{4}$ Sec. 5-37-23-4 and N. E. $\frac{1}{4}$. 31-36-23-4.
339-15	17575	Diversion in S. W. $\frac{1}{4}$ 18-37-23-4.
379-15	22619	Diversion in N. E. $\frac{1}{4}$ Sec. 7 and bet. Secs. 8/17-35-21-4.
380-15	22616	Diversion in W. $\frac{1}{2}$ Sec. 5, E. $\frac{1}{2}$ Sec. 6 and S. W. $\frac{1}{4}$ Sec. 8-36-24-4.
505-15	20079	Diversion in S. W. 16-35-3-5.
509-15	22753	Diversion in S. $\frac{1}{2}$ Sec. 13-35-23-4.
512-15	22660	Diversion in N. E. $\frac{1}{4}$ Sec. 26 and S. E. $\frac{1}{4}$ Sec. 35-36-1-5.
640-15	22921	Diversion in E. $\frac{1}{2}$ Sec. 5 and N. E. $\frac{1}{4}$ Sec. 8-33-4-5.
654-15	15814-C	Diversion in N. W. $\frac{1}{4}$ Sec. 36-33-5-5, change.

EXAMINATIONS.

281-08	14794	Examination in S. W. $\frac{1}{4}$ Sec. 28-33-4-5.
482-08	15583	Examination S. of Sec. 5-35-23-4.
483-08	15609	Examination bet. Secs. 27/28 and 33/34-35-24-4.
95-09	17683	Examination bet. Secs. 16/17 and 20/21-33-4-5.
168-09	17695	Examination of blind line bet. Secs. 27/34-34-4-5.

Survey No.	File.	Description.
117-10	18291	Examination bet. Secs. 21/22-34-22-4.
299-10	17577	Examination of range line E. of Tp. 37-25-4.
423-10	18346	Examination in Sec. 36-35-2-5.
347-11	19173	Examination S. of Secs. 2/3-34-3-5.
162-12	18707	Examination N. of James River in Tp. 34-5/6-5.
918-15	20372	Examination in N. W. $\frac{1}{4}$ Sec. 3-38-23-4.
551-12	20520	Examination N. of Sec. 7-37-23-4.
552-12	20519	Examination bet. Secs. 20/21-38-23-4.
260-13	20920	Examination bet. Secs. 3/4 and 9/10-36-20-4.
463-13	21175	Examination E. of Secs. 26/35-35-3-5.
535-13	21246	Examination bet. Secs. 32/33-34-27-4.
578-13	21290	Examination in S. W. $\frac{1}{4}$ Sec 26 and S. E. $\frac{1}{4}$ Sec. 27-42-28-4.
188-14	20675	Examination of blind line E. of Huxley in Tp. 34-22/23-4.
189-14	20259	Examination along the W. bank of the Red Deer River in Tps. 34/35-3/4/5-5.
243-14	21559	Examination in Secs. 10, 11 and 15-40-23-4.
287-14	21614	Examination bet. Secs. 2/3 and 10/11-34-5-5.
398-14	21740	Examination bet. Secs. 20 and 21-36-22-4.
399-14	21739	Examination of blind line south of Secs. 21/22-36-22-4
400-14	21829	Examination E. of Secs. 23/26/35-38-24-4.
531-14	21761	Examination S. of Secs. 28/29 and bet. Secs. 20/21-38-21-4.
719-14	22094	Examination in Secs. 13/14-35-5-5.
720-14	22102	Examination bet. Secs. 19/20-34-25-4.
904-14	17598	Examination in S. E. $\frac{1}{4}$ Sec. 29-37-20-4.
39-15	22273	Examination in Sec. 2-35-3-5.
42-15	22276	Examination W. of Sec. 3-35-2-5.
148-15	22398	Examination in N. W. $\frac{1}{4}$ Sec. 34-34-19-4 and S. W. $\frac{1}{4}$ Sec. 2-35-19-4.
149-15	22350	Examination in Secs. 13/14-34-5-5 and Sec. 18-34-4-5.
254-15	22493	Examination in N. E. $\frac{1}{4}$ Sec. 9-39-7-5.
255-15	19583	Examination in S. W. $\frac{1}{4}$ Sec. 2-35-28-4.
308-15	18728	Examination in S. W. $\frac{1}{4}$ 27-41-28-4.
313-15	15431	Examination S. of Sec. 6-34-2-5 and S. of Sec. 1-34-3-5.
327-15	22601	Examination of blind line S. of Secs. 7/8-38-25-4.
382-15	22579	Examination in S. W. $\frac{1}{4}$ Sec. 13-39-5-5.
383-15	15753-B	Examination in S. W. $\frac{1}{4}$ Sec. 12-38-26-4.
384-15	22578	Examination in S. W. $\frac{1}{4}$ Sec. 24-39-5-5.
385-15	18807	Examination in S. W. $\frac{1}{4}$ Sec. 35-37-24-4.
386-15	22678	Examination bet. Secs. 4/5 and 8/9-35-23-4.
387-15	22653	Examination in S. E. $\frac{1}{4}$ Sec. 13-34-3-5.
624-15	19593	Examination in Sec. 21-39-22-4.
641-15	20911-B	Examination in Sec. 26-35-20-4.
666-15	14545-E	Examination of hill in N. W. $\frac{1}{4}$ Sec. 14-38-26-4.
722-15	22924	Examination in N. E. $\frac{1}{4}$ Sec. 12-34-23-4.
723-15	22926	Examination in S. W. $\frac{1}{4}$ Sec. 27-34-22-4.
724-15	22925	Examination at the N. E. cor. Sec. 7-34-22-4.
738-15	20479	Examination in S. E. $\frac{1}{4}$ Sec. 17-43-2-5.
740-15	22910	Examination in S. W. $\frac{1}{4}$ Sec. 14 and N. E. $\frac{1}{4}$ Sec. 10-36-27-4
741-15	22845	Examination in N. W. $\frac{1}{4}$ Sec 32-40-3-5.
745-15	22877	Examination in S. W. $\frac{1}{4}$ Sec. 34-37-25-4.
746-15	21225	Examination in Secs. 28 and 29-35-28-4.
911-15	18786	Examination in N. W. $\frac{1}{4}$ Sec. 13-35-23-4.
912-15	19537	Examination of Secs. 23 and 24-37-27-4.
913-15	22697	Examination of $\frac{1}{4}$ line and blind line in Secs. 13, 14 and 15-40-8-5.

Edmonton, December 27th, 1915.

Sir,—I have the honour to submit the following report on field work of self and party during the season of 1915.

I organized my party in Edmonton the first week in May and moved to vicinity of Drumheller, where we commenced surveying operations. During the first part of the season we lost some time

on account of wet weather, but on the whole good progress was made. Practically all necessary surveys which I had instructions for in that part of my district, north of the Red Deer River, were completed.

I disbanded the party the third week in November and wintered outfit and horses on the Red Deer River, a few miles from a point favorable to commence another season's work.

Attached hereto is a summary of surveys completed and examinations reported on.

Your obedient servant,

A. G. STEWART,

District Surveyor and Engineer.

L. C. CHARLESWORTH, Esq.,
Deputy Minister of Public Works,
Edmonton, Alta.

NEW ROADS.

Survey No.	File.	Description.
75-14	21036	Across Secs. 27 and 34-26-11-4.
373-14	21651	In Secs. 17 and 18-30-15-4.
728-14	21097	In Secs. 8, 9, 10, 11, 17, 18, 19, 24, 25 and 26-29-20/21-4.
193-15	22440	In Sec. 31-28-14-4.
258-15	18665	In Secs. 13, 14, 15, 22 and 23-29-20-4.
938-15	18665-B	In Secs. 11 and 14-29-20-4.
262-15	22542	In Secs. 5 and 8-29-14-4.
269-15	22549	In Secs. 17, 18 and 20-29-14-4.
277-15	20095	In Secs. 7, 8, 9, 12, 13, 14, 23 and 26 -28-18/19-4.
424-15	22688	In Secs. 1, 7, 12, 17, 18 and 36-24/25-15/16-4.
439-15	22685	In Secs. 6/7-24-14-4.
440-15	22684	In Secs. 28, 32, 33, 3 and 4-22/23-14-4.
636-15	22975	In Secs. 1, 2, 3, 4, 10, 11 and 12-31-6-4.

DIVERSIONS.

301-13	20966	In Sec. 35-29-12-4.
315-14	21677	In Secs. 20 and 29-29-11-4.
372-14	21664	In S. W. $\frac{1}{4}$ Sec. 21-30-15-4.
376-14	21648	In N. W. $\frac{1}{4}$ Sec. 9-30-15-4.
379-14	21645	In E. $\frac{1}{2}$ Sec. 11-30-15-4.
380-14	21652	In Secs. 30 and 31-30-15-4.
381-14	21644	In N. W. $\frac{1}{4}$ Sec. 35-29-16-4.
382-14	21643	In Secs. 8 and 17-29-16-4.
383-14	21653	In Secs. 30 and 31-30-16-4 and Sec. 25-30-17-4.
384-14	21655	In Secs. 13 and 24-30-17-4.
385-14	21654	In Sec. 20-30-16-4.
522-14	21797	In Sec. 12-30-16-4.
523-14	21796	In N. E. $\frac{1}{4}$ Sec. 12-30-16-4.
524-14	21795	In Sec. 34-30-16-4.
525-14	21798	In Secs. 22 and 27-30-16-4.
628-14	22013	In Secs. 19, 20, 29 and 30-30-16-4.
758-14	22085	In Secs. 20 and 21-26-5-4.
761-14	22120	In Sec. 4-31-6-4.
762-14	22121	In Sec. 19-30-4-4.
763-14	22122	In Secs. 9, 10, 15 and 16-30-5-4.
842-14	22022	In Sec. 35-30-13-4.
843-14	22172	In Sec. 27-30-9-4.
844-14	22171	In Secs. 19 and 20-30-8-4.

DEPARTMENT OF PUBLIC WORKS

Survey No.	File.	Description.
845-14	22173	In Sec. 17-29-9-4.
846-14	22012	In Sec. 35-27-12-4.
968-14	22212	In Sec. 34-29-6-4.
969-14	22213	In Sec. 29-29-6-4.
970-14	22214	In Secs. 13 and 14-30-6-4.
971-14	22215	In Secs. 1, 6 and 7-29-4/5-4.
973-14	22217	In Sec. 15-30-4-4.
974-14	22218	In Secs. 27 and 34-29-4-4.
975-14	22219	In Sec. 7-30-4-4.
105-15	22359	In Sec. 3-29-18-4.
188-15	22435	In Sec. 27-26-15-4.
192-15	22439	In Secs. 25 and 26-27-14-4.
196-15	22433	In Secs. 5 and 8-26-15-4.
227-15	22496	In Secs. 32 and 5-28/29-14-4.
263-15	22543	In Sec. 29-30-14-4.
264-15	22544	In Sec. 19-29-14-4.
266-15	22546	In Sec. 24-29-15-4.
267-15	22547	In Sec. 7-30-12-4.
268-15	22548	In Sec. 35-29-13-4 and in Sec. 3-30-13-4.
270-15	22550	In Secs. 21 and 28-30-16-4.
271-15	22553	In Secs. 21 and 22-29-16-4.
272-15	22554	In Sec. 16-29-16-4.
426-15	22676	In Sec. 13-28-15-4.
433-15	22677	In Sec. 6-27-14-4.
434-15	22675	In Sec. 6-26-14-4.
478-15	20109-B	In Secs. 5, 6 and 32-29/30-19-4.
488-15	22654	In Sec. 6-30-18-4 and Sec. 36-29-19-4.
489-15	21573	In Sec. 16-30-18-4.
492-15	20067	In Sec. 34-29-20-4 and Sec. 3-30-20-4.
605-15	22778	In Sec. 12-28-12-4.
632-15	22836	In Sec. 12-30-19-4.
656-15	22959	In Sec. 12-30-17-4.
657-15	22958	In Sec. 19-30-15-4.
661-15	22976	In Sec. 16-30-6-4.
662-15	22915	In Sec. 17-29-13-4.
663-15	22994	In Sec. 26-29-13-4.
688-15	22977	In Sec. 28-30-5-4.
693-15	23003	In Secs. 28 and 33-26-9-4.
696-15	22986	In Secs. 29-27-15-4.
697-15	22985	In Sec. 33-27-15-4.
698-15	22984	In Sec. 16-28-15-4.
832-15	23073	In Secs. 19 and 20-29-16-4.

EXAMINATIONS.

613-09	18156	Road to Dorothy Ferry in Sec. 4-27-17-4.
303-12	20200	N. of Secs. 31-29-13-4 and 36-29-14-4.
374-14	21650	N. of Sec. 32-29-15-4.
375-14	21649	W. of Sec. 6-30-15-4.
377-14	21647	N. of Sec. 12-30-15-4.
673-14	22039	W. of Secs. 25 and 36-29-19-4.
847-14	22192	N. and E. of Sec. 32-29-14-4.
46-14	14072-382	Road to spring in Sec. 19-19-7-4.
49-15	30029	Military training area in Tps. 20 and 21-3-4.
189-15	22436	N. of Sec. 23-27-15-4.
190-15	22437	N. of Tp. 28-15-4.
191-15	22438	E. of Sec. 15-28-15-4.
194-15	22434	E. of Secs. 16 and 21-26-15-4.
195-15	22432	E. of Sec. 12-27-15-4.
197-15	22503	N. of Secs. 7 and 12-22-12/13-4.
335-15	14699	Proposed change in road bet. Irvine and Josephburg in Tp. 10-2-4.
423-15	22687	N. of Sec. 10-25-15-4.
437-15	22674	N. of Sec. 23-28-14-4.
508-15	25009-B	Position of Monuments N. and E. of Sec. 36-26-14-4.
626-15	15005-B	Road allowance and property lines in Tp. 11-6/7-4.
647-15	22922	Proposed surveys in Tp. 7-1/2-4.
695-15	22099	In Secs. 1 and 36-26/27-14-4.
896-15	2788	
and	23041	Road to proposed ferry site on Red Deer River in Tp. 22-1-4.

Calgary, December 23rd, 1915.

L. C. CHARLESWORTH, ESQ.,
Director of Surveys,
 Edmonton, Alta.

Sir,—I have the honour to submit the following report of the work performed by myself and party during the year 1915.

I organized my party in April and was ready to start with my party for the field on May 1st. I moved north and west of Calgary, where I completed some urgent surveys. Owing to the great amount of rain during May and the early part of June, we lost considerable time and found the moving of camp very difficult.

From the Jumping Pound district I moved to Rosebud River, east of Irricana, where several outstanding surveys were made, then completed all the surveys north and east of this point, along the Ghost Pine Creek, the Knee Hills Creek and the Three Hills Creek, as far east as the Red Deer River. From the vicinity of Drumheller I moved south, clearing up all surveys along the Rosebud River, moving south through Standard, Cluny and Bassano, Lomond and Traverse. I made nearly all the surveys on my schedule along the easterly extremity of my district. I then moved across the south side through Champion and Parkland, making all surveys on this route, ending the season in the foothill country southwest of Nanton.

On the whole the season was favorable for survey work, and, although we had considerable rain, little time was lost. As in former years I found that the Municipal Councils had not asked for all surveys through your department but seemed to wait till the party was in the district, when they would ask for others, and so one cannot cover as much territory as he may map out in the spring.

Attached is a list of surveys and examinations.

Your obedient servant,

W. H. YOUNG,

District Surveyor and Engineer

NEW ROADS.

Survey No.	File.	Description.
477-08	15690	Survey of new road in Secs. 6 and 7-29-21-4 and in Secs. 12/13-29-22-4.
471-11	19297	Survey of new road through Secs. 2, 11, 12, 13 and 23-25-6-5. and Secs. 25 and 26-24-6-5.
360-13	21073	Survey of blind line road N. of Secs. 17 and 18-16-19-4, N. of Secs. 13, 14, 15, 16, 17 and 18-16-20-4 and N. of Secs. 13, 14 and 15-16-21-4.
432-13	21169	Survey of new road to ferry through Secs. 28, 27, 33 and 34-30-21-4.
433-13	21168	Survey of new road to ferry through Secs. 16 and 17-30-21-4.
579-14	21934	Survey of road in Secs. 32, 30, 29, 20 and 19-27-20-4.
99-15	22419	Survey of road in Sec. 36-29-25-4.
167-15	19404	Survey of road in Secs. 2 and 11-31-24-4.
244-15	15677	Survey of road in Secs. 29 and 32-25-3-5.

Survey No.	File.	Description.
260-15	17748	Survey of road in Lots 1, 12, 15, 16, Lots 33, 44, 45 and 46, Grasswold subdivision.
273-15	16475	Survey of new road through Lots 52, 55, 106, and 107, Lots 62, 63, 70 and 101, Lots 83, 94, 95, 96, 97 and 98 Parcel D, Grasswold subdivision and S. E. $\frac{1}{4}$ of Sec 6-27-21-4.
297-15	22477	Survey of road in Secs. 4 and 9-15-19-4.
322-15	14498	Survey of road to bridge through Secs. 5, 6, 7 and 8-20-28-4.
927-15	15255	Survey of road in Sec. 25-17-28-4.
469-15	18395	Survey of road (change) in Secs. 6, 7, 8, and 9-29-20-4.
506-15	20410	Survey of road in Secs. 32, 31 and 30-14-28-4.
507-15	15237	Survey of road in Secs. 9 and 4-15-28-4.
556-15	14727-C	Survey of road in Secs. 11, 14 and 13-29-23-4.
820-15	23053	Survey of road to bridge in Sec. 10-27-22-4.
950-15	23149	Survey of road in Secs. 33, 27, 28, 21 and 29-25-21-4.

ROAD DIVERSIONS.

468-12	20385	Diversion in N. E. $\frac{1}{4}$ Sec. 17-28-23-4.
361-13	21074	Diversion in Secs. 1 and 12-16-20-4.
419-13	21133	Diversion N. of Sec. 19-16-19-4.
38-14	21478	Diversion in Sec. 3-15-28-4.
324-14	21633	Diversion N. of Secs. 7 and 8-25-22-4.
338-14	21728	Diversion in Secs. 26 and 27-30-22-4.
339-14	21729	Diversion in Sec. 27-30-23-4.
340-14	21730	Diversion in Secs. 20 and 29-30-21-4.
430-14	21819	Diversion in Secs. 14, 15 and 10-27-24-4.
487-14	21909	Diversion in Secs. 13 and 14-29-25-4.
488-14	21911	Diversion in Sec. 14-30-24-4.
551-14	21386	Diversion (change) in Sec. 20-17-22-4.
578-14	21945	Diversion to bridge in Sec. 26-15-26-4.
727-14	22079	Diversion in S. W. $\frac{1}{4}$ Sec. 15, and S. E. $\frac{1}{4}$ Sec. 16-23-23-4.
82-15	22362	Diversion in Secs. 22 and 28-25-2-5.
83-15	21760	Diversion in Secs. 4 and 5-15-21-4.
98-15	22285	Diversion in Sec. 5-17-20-4.
101-15	22346	Diversion in S. W. $\frac{1}{4}$ Sec. 4 and S. E. $\frac{1}{4}$ Sec. 5-15-25-4.
487-15	22655	Diversion in S. W. $\frac{1}{4}$ Sec. 5-29-18-4.
493-15	22631	Diversion in Sec. 20-29-24-4.
557-15	21801	Diversion in Secs. 25 and 36-15-22-4.
715-15	18431	Diversion in Secs. 26, 27 and 22-22-21-4.
719-15	22934	Diversion in Sec. 8-23-21-4.
720-15	17773-B	Diversion (change) in Sec. 11-15-28-4.
863-15	23035	Diversion in Sec. 11-19-20-4.
866-15	23007	Diversion in Secs. 25, 26, 23 and N. E. $\frac{1}{4}$ Sec. 24-19-20-4.
906-15	14279	Diversion in Secs. 18 and 13-27-21/22-4.
907-15	23116	Diversion in Sec. 21-25-22-4.
908-15	23118	Diversion in Secs. 24 and 25-27-22-4 and Sec. 19-27-21-4.
909-15	23117	Diversion in Secs. 27 and 34-25-22-4.
928-15	20796	Diversion in Sec. 21-29-24-4.
943-15	18432-B	Diversion (change) in Sec. 8-22-21-4.
945-15	19351	Diversion in Secs. 32 and 33-22-20-4 and Sec. 3-23-20-4.
946-15	22394	Diversion to bridge in Sec. 27-14-25-4.
947-15	21388-B	Diversion (change) in Sec. 22-25-22-4.
948-15	16444-B	Diversion (change) in Sec. 5-24-22-4.
949-15	23148	Diversion in Secs. 17, 19, 20, 31 and 32-23-20-4.
951-15	23150	Diversion in Sec. 4-25-23-4.
952-15	23151	Diversion in Secs. 11, 14, 1 and 2-20-20-4 and Secs. 25 and 36-19-20-4.
953-15	23152	Diversion in Sec. 27-25-22-4.
954-15	23153	Diversion (change) in Sec. 6-25-22-4 and in Sec. 1-25-23-4.
955-15	23154	Diversion in Sec. 18-23-22-4.
956-15	16156	Land Ties in Secs. 15, 16 and 17-16-29-4.

EXAMINATIONS.

282-10	18390	Examination for roads in Secs. 2, 10, 11, 14 and 15-29-21-4 and in Secs. 26 and 35-28-21-4.
359-13	21072	Examination of $\frac{1}{4}$ Sec. line Sec. 19-16-21-4.
418-13	21128	Examination of road allowance Secs. 29 and 30-16-21-4.

275-14	21613	Examination of road allowance at S. E. $\frac{1}{4}$ Sec. 28 and S. W. $\frac{1}{4}$ Sec. 27-22-21-4.
543-14	21928	Examination of roads, Secs. 26/23-18-1-5.
860-14	22174	Examination of trails across the Sarscee Indian Reserve.
166-15	15417	Examination of roads E. of Sec. 14-24-25-4.
494-15	22726	Examination of trails E. of Secs. 15/22-19-20-4.
819-15	23052	Examination of road in Sec. 29-24-22-4.
822-14	17818	Examination of road N. Sec. 1-29-1-5 and N. Sec. 3-29-29-4.
944-15	19122	Examination of road N. E. of Sec. 22-23-23-4.
957-15	14108-4	Examination re closing of Macleod trail through Sec. 11-20-29-4.
958-15	16147	Examination of road in Sec. 18-23-28-4.
959-15	20278	Examination of surveyed road in Sec. 34-18-2-5.
960-15	14151-A	Examination of roads S. of Sec. 26-28-4-5.
961-15	21724	Examination of road E. of Sec. 14-27-26-4.
962-15	16367	Examination of road bet. Secs. 7/18-29-28-4.
963-15	23160	Examination of road N. of Sec. 36-16-22-4.
964-15	23159	Examination of road at N.E. of Sec. 22-15-24-4.
965-15	23158	Examination of road E. of Sec. 7-17-20-4.
966-15	14581	Examination of road in Sec. 20-18-2-5.
967-15	21760	Examination of roads N. of Secs. 8/9-15-21-4.
968-15	22480	Examination of roads, Secs. 14/15-29-1-5.
970-15	16361	Examination of road N. of Secs. 11/12-18-2-5 and N. of Sec. 7-18-1-5.

THE MINES BRANCH

Edmonton, February 24, 1916.

L. C. CHARLESWORTH, ESQ.,

Deputy Minister of Public Works,

Edmonton, Alta.

Sir,—In accordance with Section 50 of The Mines Act, I herewith submit my report for the year ending December 31st, 1915.

The output of bituminous coal shows a reduction of 327,130 tons below that of the year 1914; the lignite coal a reduction of 14,479 tons, and anthracite coal, a reduction of 45,179 tons, making a total reduction of 386,788 tons. The reduction in the output of bituminous coal is due, to a great extent, to the poor condition of trade throughout the country, and the reduction in the output of domestic coal is due to the extremely mild weather which we had in the early part of the year 1915. It will be noted, however, that the output of lignite coal from the Calgary district has increased 53,088 tons over the output for the year 1914. This is due to the increased development which has taken place in the Drumheller district.

The wages paid during the year 1915 were, in some cases, slightly in excess of the wages paid at the end of the year 1914. No serious disputes or cessations of work took place throughout the year.

During the year, Mr. E. D. Black resigned his position as District Inspector of Mines, and Messrs. Ira C. Callander and James M. Stewart were appointed Superintendents of Mine Rescue Stations at Pocahontas and Nordegg, respectively.

The staff at December 31st, 1915, consisted of myself as Chief Inspector of Mines; Mr. Francis Aspinall, residing in Calgary, and acting as Senior District Inspector of Mines; Mr. Samuel A. Jones, residing in Edmonton, and acting as District Inspector of Mines for the Edmonton district; Mr. William Shaw, residing at Blairmore, and acting as District Inspector of Mines for the Crow's Nest Pass district; Mr. James A. Richards, residing in Calgary, and acting as District Inspector of Mines for the Calgary district; Mr. Duncan McDonald, residing in Lethbridge, and acting as Superintendent of Lethbridge and Taber Mine Rescue Stations; Mr. Henry James, residing in Coleman, and acting as Superintendent of Mine Rescue Car No. 1; Mr. Wm. B. Powell, residing in Canmore, and acting as Superintendent of the Mine Rescue Car No. 2; Mr. Ira C. Callander, residing at Pocahontas, and acting as Superintendent of the Pocahontas Mine Rescue Station, and Mr. James M. Stewart, residing in Nordegg, and acting as Superintendent of the Brazeau Mine Rescue Station.

All serious and fatal accidents have been investigated, all inquests attended and all mines visited several times during the year. Very few complaints have been received from workmen and others and although most of the complaints received were anonymous, each one was investigated and attended to. A few of these complaints were exaggerated, although most of them were well-

founded and served the useful purpose of bringing attention to faults or irregularities which have since been remedied. I am pleased to report that there has been a reduction in the number of fatal and non-fatal accidents which have taken place during the year.

The Mines Act came into force on August 1st, 1913; Rules for the Installation and Use of Electricity in or about Mines, on September 17th, 1913; General Regulations under Section 138 of The Mines Act, on November 11th, 1914, and Regulations passed under Section 138 of The Mines Act regarding Plans, on June 8th, 1915. The Permitted List of Explosives has been added, too, during the year. This List only permits the use of the explosives known as Monobel No. 1, A1 Monobel, and Polar Permitite, in the bituminous and anthracite coal mines.

The Mines Act having been in force for over two years, a good idea as to the manner of its working and its general effect on the industry from the point of view of safety, can now be formed. While the requirements of the Act have undoubtedly necessitated a considerable outlay, better supervision and increased safety to persons and property have been obtained. The Regulations passed under Section 138 of The Mines Act have also added considerably to the increased safety of the mines. One of these regulations provides that after the first day of July, 1915, where a mechanical contrivance for ventilation is used, adequate means for reversing the air current shall be provided.

On June 8th, 1915, an Order-in-Council entitled "General Regulations Under Section 138 of The Mines Act Regarding Plans," was passed. This Order provides:

1. After the First day of July, 1915, all plans required to be kept in accordance with the provisions of The Mines Act shall be made of durable material and shall be prepared by or under the supervision of a person holding a certificate as Mine Surveyor granted under The Mines Act.

2. No person shall prepare or be allowed to prepare any such plan unless he is the holder of a certificate as Mine Surveyor granted under The Mines Act or unless he is acting under the supervision of some person who is the holder of a certificate as Mine Surveyor granted under The Mines Act.

3. In no case shall a certificate be granted to any applicant until he has satisfied the Board of Examiners that—

- (i) He has at least two years' practical experience in the surveying of mines or is the holder of a diploma in scientific and mining training after a course of study of at least two years at an educational institute approved by the Minister, or has taken a degree in scientific and mining subjects at a university so approved;

- (ii) He is competent:

- (a) To make an accurate survey of the workings of a coal mine and to connect such survey with a surface survey;
- (b) To make accurate levellings; and
- (c) To plot accurately surveys and levellings;

- (iii) He has given satisfactory evidence of his sobriety and general good conduct.

4. Where the workings of any mine have approached within two thousand feet of any borehole drilled or being drilled for the purpose of developing natural gas or oil, or for the purpose of producing natural gas or oil, the owner, agent or manager of such mine shall keep in the office at the mine a correct plan of the mine or copy thereof on the same scale as the plan then used at the mine showing the position of said borehole or boreholes in relation to the workings of the mine and said plan shall also show the projected workings and a copy of said plan shall be forwarded to the Chief Inspector of Mines not later than the Thirty-first day of January in each year.

5. Each plan required to be kept in accordance with the provisions of The Mines Act shall have inserted on it the date on which the last survey was made and the signature of the person making such survey if such person is the holder of a certificate as Mine Surveyor and if he is not, then by the certificated person under whose supervision the plan is prepared.

6. A certificate authorizing any person to act as Mine Surveyor may be granted to such person without examination if the Board of Examiners reports that he has the necessary experience and provided application is made for such certificate before the First day of September, 1915.

7. Every person who violates any rule or regulation under The Mines Act shall be guilty of an offence against The Mines Act and liable to the penalties and obligations imposed by the said Act.

These regulations are proving to be of considerable value as proper plans of the workings are now being kept where before in a large number of cases they were only rough sketches.

The number of mines operated by stripping the surface has increased. The clay and shale mines at Redcliff have not been operating owing to the lack of demand.

The regulations made by Order-in-Council for the purpose of providing that better precautions be taken with reference to coal dust in the bituminous mines, are being fairly well complied with. At a number of these mines steps have been taken for the prevention of the propagation of explosions by the installation of incombustible dust shelf barriers.

A number of dust shelf barriers have been erected in the mine operated by the West Canadian Collieries Limited. The pillar section above No. 2 level in No. 2 mine was found to be dry and dusty and as a considerable amount of coal dust accumulated on the roadways it was considered advisable to have dust barriers erected in this part of the mine. Barriers were also erected at different parts of both No. 1 and No. 2 mines so that every section of the mine is protected. These shelves are erected overhead where there is sufficient height, and where there is not, they are placed on the side of the roads, one above the other. All the shelves are from 1½ to 2 feet in width. The minimum length of each barrier is 150 feet. The shelves are loaded with dust taken from the boiler flues.

A test was made of this dust and it was found to contain less than 1% of combustible matter.

Dust barriers were also erected in the mine operated by the Hillcrest Collieries Limited. As the pillar section above No. 1 south entry was dry and dusty, incombustible dust shelf barriers were erected in all the roadways leading from this section. Shelves were erected at both ends of No. 1 south entry and in all the chutes in this entry. The shelves in the chutes were erected between Nos. 1 and 2 south entries. All shelves are overhead and are of the same dimensions as those erected in the Bellevue mine.

The three entry and panel systems have been adopted in the No. 2 south section of this mine, each panel containing fifteen rooms. It is expected that the three entry system will make quite an improvement in the ventilation, as leakage will be reduced to a minimum. As dust has been found in parts of the mine operated by the International Coal & Coke Company, Limited, Coleman, arrangements are being made to have incombustible dust barriers erected in the slope section of the No. 4 seam.

During the year a number of samples of mine air taken by the Inspectors have been analysed. A sample taken from the mine operated by the Midland Collieries, Limited, Drumheller, showed that the return air from this mine contained nearly 1% methane. Although this mine has very good ventilation the coal gives off gas readily. Steps have been taken, however, to further improve the ventilation with the result that the percentage of gas in the return air has been greatly decreased. A number of the mines gave off quite a large percentage of black damp, notably No. 256, operated by the Brazeau Collieries Limited, Nordegg. A sample of air taken from the face of the main entry of No. 3 mine gave a percentage of 1.42 black damp. A sample taken from mine No. 317, operated by the Newcastle Coal Company, gave a percentage of .94 black damp and only .02 fire damp. A sample taken from mine No. 48, operated by the Franco-Canadian Collieries Limited, gave a percentage of 1.38 black damp and .24 fire damp. A sample taken from mine No. 177, operated by the Twin City Coal Company, gave a percentage of 1.69 black damp. Steps have been taken in those mines which show an undue amount of fire damp to have the ventilation improved.

Samples of coal dust were also taken and analysed from the mines operated by the International Coal and Coke Company Limited and the McGillivray Creek Coal and Coke Company. In both cases the coal dust was shown to be of an explosive character.

Hygrometric tests were made by the Inspectors in a large number of mines and show in nearly every case that these mines are damp, the relative humidity very seldom being under 90 per cent.

A number of mine and commercial samples of coal were sent during the year to Ottawa for testing purposes. These samples are for obtaining the value of these different coals for commercial purposes.

In all mines where coal dust is found in dangerous quantities systematic steps are being taken to remove this dust, and to have dust shelves erected in different parts of the mines.

During the past year safety lamps have been installed in a number of mines in the Drumheller district so that now all the principal mines in this part of the Province are equipped with safety lamps. Portable electric lamps have also been installed in several mines in the Lethbridge district with considerable success.

In all the mines in the Drumheller field where explosives are used, the detonators are only allowed to be in the possession of the examiners or other certificated officials and all shots are fired by electricity.

In the earlier part of the year the mine operated by the Yellow-head Pass Coal and Coke Company Limited, caught fire owing, it is supposed, to a bush fire which occurred some time previous. This mine was sealed off and abandoned, the company going into liquidation shortly afterwards.

A large number of prosecutions were instituted during the year, mostly in the smaller mines as it was found that these mines were not being operated in accordance with the Mines Act, and that an undue number of accidents were taking place in them. There still continues to be a considerable increase in the number of accidents, both fatal and non-fatal, that are taking place in the small mines in the Province. This is due to the lack of supervision by properly experienced and qualified persons.

Progress has been made during the year with training in Mine Rescue Work, two new Stations having been commenced, one at Pocahontas and one at Nordegg.

With reference to the question of the possibility of widening the market for Alberta coals, I have visited a large number of the more important points in the Provinces of Saskatchewan and Manitoba, for the purpose of looking into this question and have obtained information which may be of value.

I have also communicated by mail with the Department of Public Works for the Province of Saskatchewan requesting information regarding the different points at which the output from the mines in that Province was disposed of and hope to have this information within a short time. I have also communicated by mail with the Secretary of each Board of Trade in Saskatchewan and Manitoba, requesting information as approximately as possible as to the total consumption of coal in their respective districts for the year ending December 31st, 1914. Information has also been received from each mine in the Province of Alberta from which coal was shipped to Saskatchewan or Manitoba, as to the quantity of coal shipped to each point in these two Provinces. Regarding the information which I am endeavoring to obtain from the different Boards of Trade with reference to the consumption of coal for the year 1914, I expect it will be difficult to obtain this information and, even where it is obtained, I am of the opinion that in a number of cases it will not be reliable or at least we could not guarantee that it was so and, consequently, the information would lose a great deal of its value.

I endeavored when visiting the different points to obtain this information but with very little success as the coal-dealers who are handling the foreign coals naturally do not care to divulge the information to assist a movement that tends to bring the Canadian coals into competition with them.

From the information I have been able to gather, it appears that very little American coal is used further west than Swift Current, although a small amount is used as far west as Maple Creek. At Maple Creek, I was informed by one of the dealers that during the year 1914 there were probably not more than 200 tons of American coal brought in to that point. I was also informed by one of the dealers that they pushed the sale of American coals in preference to Canadian coals as there was a larger margin of profit for them.

At Swift Current, I found a similar condition of affairs existing. From the information that I gathered there, it would appear that from 600 to 1,000 tons were used at this point during the year 1914. The American coals at this point are retailed to the consumer at prices varying from \$11.00 to \$15.00 per ton and the Lethbridge coals from \$6.50 to \$7.25 per ton. A number of the dealers throughout this territory informed me that one of the chief reasons why American coal was used was because a large number of the heaters are manufactured for the purpose of burning hard coals and are therefore unsuitable for the use of lignite coal. I was informed also, that while the Lethbridge coals give very satisfactory results, there is a difficulty in obtaining these coals during the winter months, particularly during the period of severe cold weather, and that in order to supply his wants for the time being, the consumer has to take a coal of an inferior grade. I am of the opinion that there is a considerable amount of truth in this last statement.

At Moose Jaw, I was unable to obtain anything like accurate information as to the amount of American coal being consumed, although it would appear that from 7,000 to 10,000 tons of this coal were used during 1914. One dealer alone handled 1900 tons and there are a number of others in the town handling more than this quantity. It would appear, however, that the quantity of American coal being used in this town and the district tributary to it has decreased considerably during the past year; this is due to the fact that there is probably a decreased population and owing to financial reasons, people who were formerly using American coals are now using the Canadian coals which are cheaper. A number of people have also moved into smaller homes where they can use what they term "lower grade" coals and do not require the American hard coals. A number of the dealers appeared to be of the opinion that it would be necessary to obtain a reduction in freight rates before the use of Alberta coals could be appreciably increased. The freight rate from Lethbridge to Moose Jaw is at present \$2.40 per ton and from Fort William to Moose Jaw, \$4.00 per ton. The impression appeared to be at this point that the large increase in the use of American coal was due to the difficulty experienced in obtaining Alberta coals owing to the prolonged strike which took place in Alberta in 1911, but that the American coal is again being gradually replaced by Canadian coal. People are, however, naturally afraid to give up the use of American coal entirely as there is always the possibility of another strike, and they would again be in the same position as they were during the winter of 1911-12. The same thing, however, can be said with reference to the supply of American coals as there is always as much chance of the supply of American coal being interfered with by strikes as the Canadian coal.

From information which I gathered in Regina, I am of the opinion that the consumption at this point is in the neighborhood of 130,000 tons per year, 40,000 tons of which was probably American coal. Complaints were also made here that there was difficulty during the winter months in getting the coal desired owing to the increased demand and consequently a person has to take what he can get, which may be an American coal or a western coal of an inferior grade. In the district around Regina there does not appear to be a large amount of American coal used. The manager of the Lumber Manufacturers' Association, Ltd., informed me that at thirty yards which his company have throughout the Province, they handled during 1914 approximately 30 cars of western coals and the same amount of American coals.

I understand that the following is approximately the amount of American coals used during 1914 at different points which I was, however, unable to visit:

Vegreville	150	tons	per	year
Vermilion	150	"	"	"
Lloydminster	90	"	"	"
North Battleford	240	"	"	"
Battleford	120	"	"	"
Radisson	60	"	"	"
Langham	20	"	"	"

The smaller towns tributary to these points consume approximately a total of 100 tons per year.

In Winnipeg, the coals which came into greatest competition with the western coals are the Miller's Creek, Virginia Splint and the Kentucky Splint. These coals are sold to the consumer at \$8.50 per ton, while the Lethbridge coals are sold at \$9.00 per ton. These American coals cost the dealer, f.o.b. Winnipeg, from \$6.50 to \$7.00 per ton, while Lethbridge coals cost \$7.60 per ton when based on a price of \$3.50 per ton at the mine. As these coals have, I understand, approximately the same heating value as the Lethbridge coal, in order to get the Winnipeg market a greater inducement would have to be held out to the dealer before he would handle western coals to any great extent.

The Winnipeg Street Railway uses approximately 100,000 tons per year, the Greater Winnipeg Water District 25,000 tons, the Civic Buildings in Winnipeg 10,000 tons, all of American coal. I was also informed that all Provincial and Federal Government Buildings in Manitoba and all Civic Buildings in practically every town in Manitoba used American coal. In Brandon, 8,000 tons of American coal is used at the City Power House Plant. In Portage La Prairie, 4,000 tons, in Minnedosa, 2,000 tons, Rapid City, 2,000 tons, and Nepawa, 2,000 tons of American coal. It would appear that a difference of from \$3.00 to \$4.00 per ton is required in the prices between American hard and western coals, before the latter coals can be used to any extent. The American hard coals are sold in Winnipeg at \$11.00 per ton and the western coals at \$8.50 per ton; it would appear, however, that the western coals are gradually, although very slowly, replacing the American hard coals.

There is no reason in my opinion why the mines in Alberta should not be supplying the Winnipeg market. The fact seems to have been accepted by the operators in Alberta that Alberta coals could not be sold in Winnipeg in competition with the American

coals, but I am of the opinion that a more aggressive campaign in favor of the western coals would bring satisfactory results, and there is no doubt at all in my opinion that if a reduction could be made in the freight rate from Alberta to Winnipeg, that a very large portion of this market would be obtained. It must be admitted that the price obtained f.o.b. the mine is high in comparison with the price obtained at the mine for American coals. This is probably due to the fact that the lignite mines only work about five months during the year and a price has to be obtained during the months that the mines are working to pay for certain fixed charges that have to be taken care of during the idle period.

The strike which took place in Southern Alberta during 1911 was responsible for the strong hold which the American coals got in the Winnipeg market; this is, however, being remedied to a great extent now. It has, of course, to be remembered that the idle time being experienced at the different mines is not due by any means to loss of market, as in 1911, 243,361 tons of lignite coal were shipped to other Provinces from Alberta, while in 1914 there were 659,007 tons shipped to the same territory; this gives an increase of 270.79 per cent in four years. The chief reason is increased development and is simply a case of looking for a wider market which, in my opinion, naturally belongs to Alberta.

Referring again to the domestic coals which are sold in Winnipeg at \$9.00 per ton delivered, this price is made up as follows:

F.O.B. Mine	\$3.50
Freight	4.10
Delivery	.50
Unloading	.10
Rental	.15
Breakage	.05
Office and management	.20
Profit	.40
Total	\$9.00

According to information which I have received from the Federal Government, the following statement shows the imports of coal at Fort William and Port Arthur, also Provinces of Manitoba, Saskatchewan, Alberta and British Columbia during the fiscal year ending March 31st, 1913, 1914 and 1915, respectively:

Anthracite Coal.

	1913	1914	1915
Fort William	294,162	376,835	316,744
Port Arthur	167,705	205,380	146,207
Manitoba	17,321	29,719	22,274
Saskatchewan	43	111	105
Alberta	21	119	.....
British Columbia	1,354	3,153	95

Coal, Bituminous Slack, such as will pass a $\frac{3}{4}$ inch screen.

	1913	1914	1915
Fort William	41,630	91,758	136,435
Port Arthur	3,641	16,954	29,347
Manitoba	46,092	36,785	56,587
Saskatchewan	340	298	174
Alberta	691	165	224
British Columbia	12,752	27,675	6,850

Coal, Bituminous Round and run of the mine, and coal n.o.p.

	1913	1914	1915
Fort William	1,568,936	1,966,458	897,470
Port Arthur	961,722	1,002,368	641,293
Manitoba	69,011	23,434	46,898
Saskatchewan	1,823	2,803	460
Alberta	59	118	499
British Columbia	67,990	162,288	38,322

During the year ending December 31st, 1914, there were shipped via Canadian Pacific Railway and Canadian Northern Railway, from Port Arthur and Fort William to destinations in Manitoba or west thereof, 355,075 tons of anthracite coal and 296,772 tons of bituminous coal for public consumption; also 17,496 tons of anthracite and 730,353 tons of bituminous coal for railway use.

When an adjustment of freight rates is being made between American and Canadian coals, the freight rates on American coals should be considered as from the point of production to the point where it is consumed and not from the International Boundary, as I believe has been done in the past.

Owing to the large number of men that have been recruited from the mining districts in the Province during the last eighteen months and the large number that are likely to be recruited from these districts before next winter, it cannot be too strongly impressed upon the general public the necessity of making provision for a probable shortage of coal next winter by having a large stock of fuel on hand, before the severe weather sets in, as possible.

The following tables give particulars regarding the production and sales during the year.

Year	Output in short tons for N.W.T. (Alberta and Saskatchewan.)	Output in short tons Alberta
1901	346,649	.....
1902	510,674	.....
1903	622,939	.....
1904	782,931	.....
1905 .....	.....	811,228
1906 .....	.....	1,385,000
1907 .....	.....	1,834,745
1908 .....	.....	1,845,000
1909 .....	.....	2,174,329
1910 .....	.....	3,036,757
1911 .....	.....	1,694,564
1912 .....	.....	3,446,349
1913 .....	.....	4,306,346
1914 .....	.....	3,821,739
1915 .....	.....	3,434,891

CLASSIFICATION OF OUTPUTS DURING THE YEAR 1915.

	Tons.
Lignite coal	1,682,922
Bituminous coal	1,626,237
Anthracite coal	125,732
Coal used in coke production	38,878
Coke produced	23,826
Briquettes produced	83,180

The following table indicates how the total output of coal from the Province was disposed of:

Tons of 2,000 lbs.	Crow's Nest Pass	Calgary	Leth- bridge	Edmon- ton	Total
Sold for consumption in Alberta	728,298	574,376	186,151	640,305	2,129,130
Sold for consumption in other provinces	80,736	190,058	432,516	112,264	815,574
Sold for export to the United States	20,724	917	3,406		25,047
Total sales	829,758	765,351	622,073	752,569	2,969,751
Used in making briquettes		50,222			50,222
Used in making coke	38,878				38,878
Used under colliery boilers	50,970	54,979	85,240	54,339	245,528
Put to stock				2,533	2,533
Lifted from stock	448	2,682	1,294	2,519	6,943
Slack put on waste heap	225	76,027	13,709	44,961	134,922
Total output	919,383	943,897	719,728	851,883	3,434,891

The following table indicates how the bituminous coal outputs from the different inspection districts in the Province were disposed of:

Tons of 2,000 lbs.	Crow's Nest Pass	Calgary	Leth- bridge	Edmon- ton	Total
Sold for consumption in Alberta	728,298	396,480		230,915	1,355,693
Sold for consumption in other provinces	80,736	23,471		7,871	112,078
Sold for export to the United States	20,724	64			20,788
Total sales	829,758	420,015		238,786	1,488,559
Used in making coke	38,878				38,878
Used under colliery boilers	50,970	21,163		12,958	85,091
Put to stock					
Lifted from stock	448	100		2,519	3,067
Slack put on waste heap	225	12,281		4,270	16,776
Total output	919,383	453,359		253,495	1,626,237

The following table indicates how the anthracite coal and briquettes outputs in the Province were disposed of:

Tons of 2,000 lbs.	Calgary District	
	Coal	Briquettes
Sold for consumption in Alberta	21,159	72,428
Sold for consumption in other provinces	26,062	10,668
Sold for export to the United States	853	
Total sales	48,074	83,096
Used under colliery boilers	20,797	159
Used in making briquettes	50,222	
Put to stock		
Lifted from stock	2,203	75
Slack put on waste heap	8,842	
Total	125,732	83,180

The following table indicates how the lignite coal outputs from the different inspection districts in the Province were disposed of:

Tons of 2,000 lbs.	Calgary	Leth- bridge	Edmon- ton	Total
Sold for consumption in Alberta.....	156,737	186,151	409,390	752,278
Sold for consumption in other provinces	140,525	432,516	104,393	677,434
Sold for export to the United States....		3,406		3,406
Total sales	297,262	622,073	513,783	1,433,118
Used under colliery boilers	13,019	85,240	41,381	139,640
Put to stock			2,533	2,533
Lifted from stock	379	1,294		1,673
Slack put to waste heap	54,904	13,709	40,691	109,304
Total	364,806	719,728	598,388	1,682,922

The following table indicates how the output of coke was disposed of:

	Tons of 2,000 lbs.
Sold for consumption in Alberta	487
Sold for consumption in other provinces	22,873
Sold for export to the United States	62
Total sales	23,422
For colliery use	404
Total output	23,826

The Crow's Nest Pass is the only district in the Province in which coke is produced.

The following table shows the total sales of Coal, Briquettes and Coke of the Province:

	Tons of 2,000 lbs.			Total
	Sold for consumption in Alberta	Sold for consumption in other provinces	Sold for export to the United States	
Bituminous coal	1,355,693	112,078	20,788	1,488,559
Anthracite coal	21,159	26,062	853	48,074
Lignite coal	752,278	677,434	3,406	1,433,118
Total	2,129,130	815,574	25,047	2,969,751
Briquettes	72,428	10,668		83,096
Coke	487	22,873	62	23,422

The following table shows where the Bituminous, Anthracite and Lignite Coals from the different districts were sold:

BITUMINOUS COAL					
District	Sold for consumption in Alberta	Sold for consumption in British Columbia	Sold for consumption in Saskatchewan	Sold for consumption in Manitoba	Sold for export to the United States
Crow's Nest Pass.....	725,316	7,701	71,439	1,596	20,724
Pincher Creek	2,982				
Okotoks	247				
Aldersyde	11,565				
Banff.....	160,990	15,368	5,683	2,420	64
Brazeau	223,678				
Yellowhead Pass	148,488	384	7,307	120	
Jasper Park	82,427		60		
Total	1,355,693	23,453	84,489	4,136	20,788
					1,488,559
ANTHRACITE COAL AND BRIQUETTES					
Coal	21,159	16,307	9,496	259	
Briquettes	72,428	2,754	6,995	919	853
					48,074
					83,096

The following table shows where the Bituminous, Anthracite and Lignite Coals from the different districts were sold.

LIGNITE COAL

District	Sold for consumption in Alberta	Sold for consumption in British Columbia	Sold for consumption in Saskatchewan	Sold for consumption in Manitoba	Sold for export to the United States	Total
Wetaskiwin	33,467		22,336			55,803
Edmonton	208,394		17,915	442		226,751
St. Albert	9,327		656			9,983
Tofield	38,509		6,435			44,944
Cardiff	98,190	495	45,038	1,089		144,812
Pembina	21,503		9,987			31,490
Lethbridge	163,801	13,030	322,809	45,144	1,201	545,985
Taber	9,844	1,515	41,358	8,660	2,205	63,582
Bow Island	8,081					8,081
Milk River	4,425					4,425
Medicine Hat	17,827		3,510			21,337
Carbon	10,750		1,500			12,250
Trochu	2,105					2,105
Drumheller	82,529	60	128,220	5,086		215,895
Three Hills	1,940					1,940
Lacombe	41,586		2,149			43,735
	752,278	15,100	601,913	60,421	3,406	1,433,118

345-975
59

604,985

888,000

The following table shows the classification of persons employed above and below ground in the bituminous coal fields:

AVERAGE NUMBER EMPLOYED

Character of Labour	Crow's Nest Pass Dist.		Calgary District		Edmonton District		Total	
	Above	Below	Above	Below	Above	Below	Above	Below
Supervision a n d clerical assistance	53	59	23	27	28	23	104	109
Miners and helpers.		704		292		264		1,260
Mechanics or skilled labour	97	28	38	22	32	37	167	87
Other employees....	269	408	155	129	123	110	547	647
Total	419	1,199	216	470	183	434	818	2,103

The following table shows the classification of persons employed above and below ground in the lignite coal fields:

Character of Labour	Lethbridge District		Calgary District		Edmonton District		Total	
	Above	Below	Above	Below	Above	Below	Above	Below
Supervision a n d clerical assistance	42	51	47	47	46	43	135	141
Miners and helpers.		388		579		474		1,441
Mechanics or skilled labour	95	54	62	19	62	20	219	93
Other employees ...	244	317	149	107	228	111	617	535
Total	381	810	254	752	336	648	971	2,210

The following table shows the classification of persons employed above and below ground in the bituminous, anthracite and lignite coal fields, respectively:

AVERAGE NUMBER EMPLOYED

Character of Labour	Bituminous		Anthracite		Lignite		Total	
	Above	Below	Above	Below	Above	Below	Above	Below
Supervision a n d clerical assistance	104	109	9	8	135	141	248	258
Miners and helpers.		1,260		119		1,441		2,820
Mechanics or skilled labour	167	87	54	1	219	93	440	181
Other employees ...	547	647	100	52	617	535	1,264	1,234
Total	818	2,103	163	180	971	2,210	1,952	4,493

PER CAPITA PRODUCTION OF MINES IN THE PROVINCE.

Year	Tons of 2,000 Pounds				
	Gross tons coal mined	Total No. of men employed	Tons of coal mined per man	No. of men employed undergr'nd	Tons of coal mined per man empl'd under gr'nd
1906	1,385,000	2,800	494	2,000	692
1907	1,834,745	3,600	509	2,700	679
1908	1,845,000	3,780	488	2,681	688
1909	2,174,329	5,207	417	3,893	566*
1910	3,036,757	5,818	504	4,090	742
1911	1,694,564	6,689	253	4,517	375**
1912	3,446,349	6,661	517	4,861	708
1913	4,306,346	8,068	533	5,837	737
1914	3,821,739	8,170	467	6,052	631
1915	3,434,891	6,445	532	4,493	764

*During the year 1909 a strike affecting all the larger mines in the Province lasted for a period of three months.

**During the year 1911 a strike affecting all the larger mines in the Province lasted for a period of eight months.

SUMMARY OF STATISTICS FOR THE YEAR 1915.

Number of mines in operation	280
Number of new mines opened	58
Number of mines abandoned	72
Number of tons of coal mined	3,434,891
Number of tons of coke produced	23,826
Number of tons of briquettes produced	83,180
Average number of persons employed inside mines	4,493
Average number of persons employed outside mines	1,952
Number of separate accidents causing loss of life	18
Number of deaths caused by accidents inside the mines	15
Number of deaths caused by accidents outside the mines	3
Number of serious accidents inside the mines	28
Number of serious accidents outside the mines	5
Number of slight accidents inside the mines	27
Number of slight accidents outside the mines	6
Number of Mine Manager's Certificates issued during the year..	4
Number of Overman's Certificates issued during year	11
Number of Examiner's Certificates issued during year	27
Number of Mine Surveyor's Certificates issued during the year..	123
Number of persons holding First Class Certificates	163
Number of persons holding Second Class Certificates	194
Number of persons holding Third Class Certificates	396
Number of persons granted Provisional Overmen's Certificates..	173
Number of persons prosecuted for contraventions of The Mines Act	131

EXPLOSIVES.

The following table showing the quantity of the various kinds of explosives used during the year in mines, the estimated number of shots fired, the methods of firing them and the number of misfires recorded, have been compiled from returns furnished by the mine owners.

QUANTITY OF EXPLOSIVES USED IN LBS.

Name of Explosive	Crow's Nest Pass	Leth-bridge	Calgary	Edmon- ton	Total
Black Powder	506	141,934	100,840	120,082	363,362
Monobel	92,534	5,991	86,180	54,311	239,016
Samsonite			4,710	11,385	16,095
Dynamite	1,359	15,007	1,363	1,160	18,889
Nobel Ammonia	200			5,122	5,322
Compressed Black Powder		6,621	500	2,111	15,232
Polar Permitite	4,128		11,734		15,862
Carbonite		83			83
Byntal No. 2		100			100
Coalite		4			4
Total	98,727	169,740	205,327	200,171	673,965

ESTIMATED NUMBER OF SHOTS FIRED.

District	By Electricity	By Fuse	By Squibs	Total
Crow's Nest Pass	109,428			109,428
Lethbridge	74,271	12,710	69,809	156,790
Calgary	171,603	54,474	37,735	263,812
Edmonton	64,374	107,142	40	171,556
Total	419,676	174,326	107,584	701,586

NUMBER OF MISS-FIRE SHOTS RECORDED.

District	By Electricity	By Fuse	Otherwise	Total
Crow's Nest Pass	302			302
Lethbridge	129	24	25	178
Calgary	287	373	109	769
Edmonton	101	235		336
Total	819	632	134	1,585

No statistics are available as to the causes of the miss-fires.

The following table shows the number of tons of bituminous and anthracite coal produced per lb. of explosive used in each district:

District	No. of tons of coal produced	No. of lbs. of explosives used	No. of tons of coal produced per pound of explosive used
Crow's Nest Pass	919,383	98,727	9.31
Calgary	579,091	88,995	6.50
Edmonton	253,495	56,456	4.49
Total	1,751,969	244,178	7.17

The following table shows the number of tons of lignite coal produced per lb. of explosive used in each district:

District	No. of tons of coal produced	No. of lbs. of explosives used	No. of tons of coal produced per pound of explosive used
Lethbridge	719,728	169,740	4.24
Calgary	364,806	116,332	3.13
Edmonton	598,388	143,715	4.16
Total	1,682,922	429,787	3.91

The following table shows the average number of days in each month on which bituminous coal was drawn in each district:

District	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average No. of days worked per month
Crow's Nest Pass ..	15	13	15	14	9	10	10	16	14	18	21	18	14.4
Pincher Creek	16	15	11	9	7	7	12	17	15	19	23	19	14.1
Banff	17	13	13	8	10	11	17	19	18	21	17	20	15.3
Brazeau	24	23	26	20	20	19	16	22	22	25	24	26	22.2
Yellowhead Pass ..	22	14	22	18	20	12	7	8	14	13	18	24	16.0
Jasper Park	24	24	26	25	23	19	18	18	18	21	19	22	21.4
Okotoks	15	20	15	10	..	9	26	14	20	20	25	24	16.5
Aldersyde	22	19	19	14	17	15	15	15	19	22	23	23	18.5
Total	19	17	18	14	13	12	15	16	17	19	21	22	16.9

The following table shows the average number of days in each month on which anthracite coal was drawn in each district:

District	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average No. of days worked per month
Banff	14	9	13	11	9	12	12	13	13	12	13	13	12.0

The following table shows the average number of days in each month on which lignite coal was drawn in each district:

District	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average No. of days worked per month
Lethbridge	18	16	14	9	10	11	15	19	19	20	22	23	16.3
Taber	13	8	10	7	8	10	9	8	13	18	20	26	12.5
Bow Island	16	15	18	14	15	13	12	14	15	18	20	19	15.7
Milk River	15	15	15	12	17	18	21	24	21	22	19	21	18.3
Medicine Hat	18	19	14	15	18	14	20	20	16	21	22	21	18.1
Carbon	20	18	15	12	13	12	14	11	18	22	24	23	16.8
Trochu	24	18	19	18	13	16	17	13	18	22	24	23	18.2
Drumheller	21	18	18	13	15	17	16	13	12	21	21	21	17.1
Three Hills	21	17	18	18	16	14	16	18	19	19	22	21	18.2
Lacombe	21	17	15	13	13	12	15	14	19	22	22	21	17.0
Wetaskiwin	21	21	18	17	15	15	15	14	14	19	17	22	17.3
Edmonton	23	19	22	19	17	17	18	18	23	24	25	24	20.7
St. Albert	21	22	21	10	3	10	12	10	18	22	21	20	15.8
Tofield	22	19	20	15	25	25	25	25	25	25	25	22	22.7
Cardiff	18	16	13	6	5	6	6	9	21	21	22	21	13.6
Pembina	20	6	4	6	4	10	5	18	24	26	13	20	13.8
Total	19.5	16.5	15.8	12.7	12.9	13.7	14.7	15.5	18.4	21.3	20.8	21.5	16.9

LIST OF PROSECUTIONS UNDER THE MINES ACT.

Mine in Which Contravention was Committed	Description of Defendant	Offence Charged	Result of Proceedings	Penalty	Costs
Sterling Coal Co., Ltd.	Miner	Acted as examiner when he was not the holder of a certificate under The Mines Act. (Sec. 27)	Convicted	\$1.00	\$8.05
Sterling Coal Co., Ltd.	Miner	Acted as examiner when he was not the holder of a certificate under The Mines Act. (Sec. 27)	Convicted	\$1.00	\$8.05
The Pembina Coal Operators, Ltd.	Miner	Improperly used a safety lamp. (Sec. 113 [3])	Convicted	\$1.00	\$2.50
West Canadian Collieries, Ltd., (Bellevue)	Miner	Failed to work place in accordance with the direction of the manager, overman or examiner. (Sec. 114 [6])	Convicted	\$5.00 or one month's imprisonment	\$3.25
Hillcrest Collieries, Ltd.	Timber Packer..	Passed beyond a fence or danger signal. (Sec. 14 of Gen. Reg. under Sec. 138 of The Mines Act.)	Convicted	\$1.00 or one month's imprisonment	\$3.25
Hillcrest Collieries, Ltd.	Miner	Passed beyond a fence or danger signal. (Sec. 14 of Gen. Reg. under Sec. 138 of The Mines Act.)	Convicted	\$5.00 or one month's imprisonment	\$3.25
Hillcrest Collieries, Ltd.	Miner	Passed beyond a fence or danger signal. (Sec. 14 of Gen. Reg. under Sec. 138 of The Mines Act.)	Convicted	\$5.00 or one month's imprisonment	\$3.25

LIST OF PROSECUTIONS UNDER THE MINES ACT—Continued.

Mine in Which Contravention was Committed	Description of Defendant	Offence Charged	Result of Proceedings	Penalty	Costs
Twin City Coal Co., Ltd.	Miner	Had in his possession any lucifer match or apparatus of any kind for striking a light or any pipe for smoking tobacco, or any tobacco for smoking in any form (Sec. 64 [3])	Let off on suspended sentence ...		\$2.30
Twin City Coal Co., Ltd.	Miner	ditto	Let off on suspended sentence ...		\$2.30
West Canadian Collieries, Ltd., (Bellevue)	Miner	ditto	Convicted	\$3.00 or one month's imprisonment	\$3.25
Hillcrest Collieries, Ltd.	Miner	ditto	Convicted	\$2.00 or one month's imprisonment	\$3.25
Hillcrest Collieries, Ltd.	Miner	ditto	Convicted	\$10.00 or six weeks' imprisonment	\$3.25
West Canadian Collieries, Ltd., (Blairmore)	Miner	ditto	Convicted	\$10.00 or two months' imprisonment	\$3.25
West Canadian Collieries, Ltd., (Blairmore)	Miner	ditto	Convicted	\$10.00 or two months' imprisonment	\$3.25
West Canadian Collieries, Ltd., (Blairmore)	Miner	ditto	Convicted	\$10.00 or two months' imprisonment	\$3.25
West Canadian Collieries, Ltd., (Blairmore)	Miner	ditto	Convicted	\$10.00 or two months' imprisonment	\$3.25
West Canadian Collieries, Ltd., (Blairmore)	Miner	ditto	Convicted	\$10.00 or two months' imprisonment	\$3.25
International Coal & Coke Co., Ltd.	Miner	ditto	Convicted	\$10.00 or two months' imprisonment	\$3.25

LIST OF PROSECUTIONS UNDER THE MINES ACT--Continued.

Mine in Which Contravention was Committed	Description of Defendant	Offence Charged	Result of Proceedings	Penalty	Costs
William R. Walsh	Operator	Failed to have the underground workings of the mine under the daily charge of an overman holding a First or Second Class certificate. (Sec. 29, subsec. 2.)	Convicted	\$5.00	\$1.50
Hillcrest Collieries, Ltd.....	Bratticeman's Helper.....	Did while in a state of intoxication enter in or about the mine. (Sec. 100.)	Convicted	\$20.00 or two months' imprisonment	\$4.80
Hillcrest Collieries, Ltd.....	Miner	Used a safety lamp before it was examined and found secure and securely locked by a person holding a certificate under The Mines Act. (Sec. 64, sub-sec. 2.)	Convicted	\$10.00 or one month's imprisonment	\$3.25
Hillcrest Collieries, Ltd.....	Spragger	Neglected to attach a drag or other appliance to cars before being hoisted. Sec. 118 [41]	Convicted	\$20.00 or two months' imprisonment	\$4.50
Canadian Coal & Coke Co., Ltd., (Lovett)	Miner	Had in his possession any lucifer match or apparatus of any kind for striking a light or any pipe for smoking tobacco or any tobacco for smoking in any form. (Sec. 64 [3])	Convicted	\$5.00	\$3.25
Canadian Coal & Coke Co., Ltd., (Lovett)	Miner	ditto	Convicted	\$5.00	\$3.25
Canadian Coal & Coke Co., Ltd., (Lovett)	Timber Packer	ditto	Convicted	\$5.00	\$3.25

DEPARTMENT OF PUBLIC WORKS

LIST OF PROSECUTIONS UNDER THE MINES ACT -Continued.

Mine in Which Contravention was Committed	Description of Defendant	Offence Charged	Result of Proceedings	Penalty	Costs
Canadian Coal & Coke Co., Ltd., (Lovett)	Miner	Had in his possession any lucifer match or apparatus of any kind for striking a light or any pipe for smoking tobacco, or any tobacco for smoking in any form (Sec. 64 [3])	Convicted	\$5.00	\$3.25
Hillcrest Collieries, Ltd.	Examiner	Failed to fence off dangerous place. (Sec. 110 [2])	Convicted	\$25.00 or two months' imprisonment	\$3.25
Hillcrest Collieries, Ltd.	Examiner	Failed to withdraw workmen from a dangerous place. (Sec. 63.)	Convicted	\$25.00 or two months' imprisonment	\$3.25
West Canadian Collieries, Ltd., (Bellevue)	Coal Bucker	Riding on locomotive in mine without permission. (Sec. 97)	Convicted	\$10.00 or one month's imprisonment	\$3.25
West Canadian Collieries, Ltd., (Bellevue)	Coal Bucker	Riding on locomotive in mine without permission. (Sec. 97)	Convicted	\$10.00 or one month's imprisonment	\$3.25
West Canadian Collieries, Ltd., (Bellevue)	Coal Bucker	Riding on locomotive in mine without permission. (Sec. 97)	Convicted	\$10.00 or one month's imprisonment	\$3.25
Brazeau Collieries, Ltd.	Miner	Improperly used safety lamp. (Sec. 113 [4])	Convicted	\$2.00	\$2.75
Hillcrest Collieries, Ltd.	Miner	Did an act likely to cause danger to the mine or to any person. (Sec. 97)	Convicted	\$1.00 or one month's imprisonment	\$2.25
Edward Royal	Operator	Failed to have plan at the mine. (Sec. 55)	Convicted	\$2.00	\$1.10

LIST OF PROSECUTIONS UNDER THE MINES ACT—Continued.

Mine in Which Contravention was Committed	Description of Defendant	Offence Charged	Result of Proceedings	Penalty	Costs
Edward Royal	Operator	Failed to have the underground work- ings under the charge of an over- man. (Sec. 29, sub-sec. 2)	Convicted	\$5.00	\$1.10
Edward Berford	Operator	ditto	Convicted	\$5.00	\$3.25
Carl Linder	Operator	Failed to have plan at the mine. (Sec. 55)	Convicted	\$5.00 or seven days im- prisonment	\$1.60
Edward Wimmer	Operator	Failed to have plan at the mine. (Sec. 55)	Convicted	\$10.00 or one month's im- prisonment	\$1.00
Edward Wimmer	Operator	Failed to have certified person in charge of underground workings. (Sec. 29, [2])	Convicted	\$10.00 or one month's im- prisonment	\$1.00
Strader & Green	Operator	ditto	Convicted	\$5.00 or fourteen days' imprisonment	\$1.60
Strader & Green	Operator	Failed to have plan brought up to date. (Sec. 55)	Convicted	\$5.00 or fourteen days' imprisonment	\$1.60
Louis Bergren	Operator	Failed to have plan at mine. (Sec. 55)	Convicted	\$5.00 or fourteen days' imprisonment	\$1.60
H. A. Mason	Operator	Failed to have plan at mine. (Sec. 55)	Convicted	\$5.00	\$3.45
H. A. Mason	Operator	Failed to have certified person in charge. (Sec. 29, [2])	Convicted	\$5.00	\$3.50
Tolton & Sinclair	Operator	Failed to have correct plan in accord- ance with Sec. 1 of Regulations Re- garding Plans.	Convicted	\$5.00	\$2.00

LIST OF PROSECUTIONS UNDER THE MINES ACT—*Continued.*

Mine in Which Contravention was Committed	Description of Defendant	Offence Charged	Result of Proceedings	Penalty	Costs
Tolton & Sinclair	Operator	Failed to have certified person in charge of underground workings.	Convicted	\$5.00	\$2.00
J. A. Haeckl	Operator	Failed to have plan at mine. (Sec. 55)	Convicted	\$5.00	\$2.00
J. A. Haeckl	Operator	Failed to have certified person in charge of underground workings. (Sec. 29 [2])	Convicted	\$5.00	\$2.00
Samuel Wadsworth	Operator	Failed to have plan at mine. (Sec. 55)	Convicted	\$5.00	\$2.00
Samuel Wadsworth	Operator	Failed to have certified person in charge of underground workings. (Sec. 29 [2])	Convicted	\$5.00	\$2.00
Hillcrest Collieries, Ltd.	Coal Bucker	Presented himself for work whilst in a state of intoxication. (Sec. 100) ..	Convicted	\$20.00 or two months' imprisonment	\$6.05
Hillcrest Collieries, Ltd.	Timber Packer ..	Did an act likely to cause danger to the mine or to any person. (Sec. 97)	Convicted	\$5.00 or one month's imprisonment	\$5.25
Hillcrest Collieries, Ltd.	Timber Packer ..	Took a safety lamp into the mine without having it first examined by the person appointed for the purpose. (Sec. 64 [2])	Convicted	\$20.00 or two months' imprisonment	\$5.25
Hillcrest Collieries, Ltd.,	Examiner	Riding on cars without permission. (Sec. 103)	Convicted	\$10.00 or one month's imprisonment	\$3.25
West Canadian Collieries, Ltd., (Bellevue)	Miner	Failed to support coal while undercutting. (Sec. 75)	Convicted	\$15.00 or thirty days' imprisonment	\$4.25

LIST OF PROSECUTIONS UNDER THE MINES ACT—Continued.

Mine in Which Contravention was Committed	Description of Defendant	Offence Charged	Result of Proceedings	Penalty	Costs
Hedstrom Brothers	Operator	Failed to have underground workings under the daily care of a certifi- cated person. (Sec. 29 [2])	Convicted	\$10.00	\$5.00
Fred Tehow	Operator	ditto	Convicted	\$5.00	\$3.25
A. L. Wallace	Operator	ditto	Convicted	\$5.00	\$3.25
Hillcrest Collieries, Ltd.	Driver Boss	Did an act likely to cause danger to the mine or to any person. (Sec. 97)	Convicted	\$20.00 or two months' im- prisonment	\$4.65
Brazeau Collieries, Ltd.	Jigger	Failed to use stop-block provided at the top of incline. (Sec. 118 [3]) ..	Convicted	\$20.00 or two months' im- prisonment	\$2.75
West Canadian Collieries, Ltd., (Bellevue)	Miner	Did an act likely to cause danger to the mine or to any person. (Sec. 97)	Convicted	\$20.00 or two months' im- prisonment	\$6.66
West Canadian Collieries, Ltd., (Bellevue)	Miner	Failed to extinguish the light in his safety lamp after finding the glass was cracked. (Sec. 113 [2])	Convicted	\$10.00 or one month's im- prisonment	\$6.65
Mark Hancock	Operator	Failed to have plan of mine kept up as required by Sec 55.	Convicted	\$0.50	\$2.00
J. J. Mills	Operator	Failed to have plan of mine kept up as required by Sec 55.	Convicted	\$0.50	\$2.00
Luke Ratsbeck	Operator	Failed to have plan of mine kept up as required by Sec 55.	Convicted	\$0.50	\$2.00

DEPARTMENT OF PUBLIC WORKS

LIST OF PROSECUTIONS UNDER THE MINES ACT—Continued.

Mine in Which Contravention was Committed	Description of Defendant	Offence Charged	Result of Proceedings	Penalty	Costs
Louis Santoni	Operator	Failed to have plan of mine kept up as required by Sec 55.	Convicted	\$5.00	\$4.50
J. H. Owen	Operator	Failed to have underground workings under the charge of an Overman. (Sec. 29 [2])	Convicted	\$15.00 or one month's imprisonment	\$4.00
Thomas J. Sparrow	Operator	Failed to have plan of mine kept up as required by Sec 55.	Convicted	\$5.00 or one month's imprisonment	\$4.00
Thomas J. Sparrow	Operator	Failed to have underground workings under the charge of an Overman. (Sec. 29 [2])	Convicted	\$10.00 or one month's imprisonment	\$4.00
John Neisner	Operator	Failed to have underground workings under the charge of an Overman. (Sec. 29 [2])	Convicted	\$5.00 or one month's imprisonment	\$2.00
John Neisner	Operator	Failed to have plan of mine kept up as required by Sec. 55.	Convicted	\$5.00 or one month's imprisonment	\$2.00
Walter Wallwork	Operator	Failed to have plan of mine kept up as required by Sec. 55.	Convicted	\$1.00	\$3.25
Dominic Annon	Operator	Failed to have plan of mine kept up as required by Sec. 55.	Convicted	\$1.00	\$7.65
J. P. Pears	Operator	ditto	Convicted	\$1.00	\$7.65
Robert A. Salisbury	Operator	ditto	Convicted	\$1.00	\$5.25

LIST OF PROSECUTIONS UNDER THE MINES ACT—Continued.

Mine in Which Contravention was Committed	Description of Defendant	Offence Charged *	Result of Proceedings	Penalty	Costs
A. D. McPherson	Operator	Failed to have the operations of shaft sinking under the supervision of a person holding a certificate as re- quired by Sec. 29, [2].	Convicted	\$1.00	\$1.50
McCulloch Brothers	Operator	Failed to have plan of mine kept up as required by Sec. 55.	Convicted	\$1.00	\$1.50
W. S. Hutchison	Operator	ditto	Convicted	\$5.00	\$2.00
W. S. Hutchison	Operator	Failed to have underground workings under the charge of a certificated person. (Sec. 29, [2]).	Convicted	\$5.00	\$2.00
Staveley Coal Mining Co. ...	Agent	Failed to have plan of mine as re- quired by Sec. 55.	Convicted	\$5.00	\$2.50
W. E. Watkins	Operator	ditto	Convicted	\$5.00	\$2.50
T. E. Smith	Operator	ditto	Convicted	\$5.00	\$2.50
George Purdy	Operator	ditto	Convicted	\$5.00	\$2.00
Charles McLean	Operator	ditto	Convicted	\$5.00	\$2.00
C. E. Brown	Operator	ditto	Convicted	\$5.00	\$2.00
Kenneth Bryanton	Operator	ditto	Convicted	\$5.00	\$2.00
T. A. Kane	Operator	Failed to keep daily inspection re- ports. (Sec. 60)	Convicted	\$5.00	\$2.00

DEPARTMENT OF PUBLIC WORKS

LIST OF PROSECUTIONS UNDER THE MINES ACT—Continued.

Mine at Which Contravention Was Committed	Description of Defendant	Offence Charged	Result of Proceedings	Penalty	Costs
T. A. Kane	Operator	Failed to have underground workings under the charge of a certificated person (Sec. 29, [2])	Convicted	\$5.00	\$2.00
Col. Jas. A. Walker	Acting Overman	Acting as Overman while not being the holder of a First or Second Class certificate as required by Sec. 26.	Convicted	\$5.00	\$2.00
E. N. McKenzie	Operator	Operating without the services of a certificated Overman. (Sec. 26).	Convicted	\$5.00	\$2.50
E. N. McKenzie	Mechanical Engineer ...	Failed to inspect and report on machinery. (Sec. 82).	Convicted	\$5.00	\$2.50
E. N. McKenzie	Miner	Did go to work before the mine was reported safe. (Sec. 60 [2]).	Convicted	\$5.00	\$2.50
E. N. McKenzie	Miner	ditto	Convicted	\$5.00	\$2.50
E. N. McKenzie	Miner	ditto	Convicted	\$5.00	\$2.50
Leon Strylczyk	Operator	Operating without the services of a certificated person. (Sec. 26).	Convicted	\$5.00	\$2.50
George Law	Operator	Failed to keep daily inspection reports. (Sec. 60).	Convicted	\$5.00	\$4.50
Charles F. Martin	Operator	Failed to have underground workings under the charge of a certificated person. (Sec. 29, [2]).	Convicted	\$12.00	\$1.00

LIST OF PROSECUTIONS UNDER THE MINES ACT—Continued.

Mine at Which Contravention Was Committed	Description of Defendant	Offence Charged	Result of Proceedings	Penalty	Costs
Charles F. Martin	Operator	Failed to have plan of mine as re- quired by Sec. 55.	Convicted	\$10.00	\$1.00
Julius Wilkinson	Operator	Failed to have underground workings under the charge of a certificated person. (Sec. 29, [2])	Convicted	\$5.00	\$1.00
Newcastle Coal Co., Ltd.	Miner	Was in possession of five matches, while underground. (Sec. 64 [3]) ..	Convicted	\$7.50	\$2.65
Newcastle Coal Co., Ltd.	Miner	Was in possession of three matches while underground. (Sec. 64 [3]) ..	Convicted	\$7.50	\$2.65
Newcastle Coal Co., Ltd.	Miner	Was in possession of two matches, while underground. (Sec. 64 [3]) ..	Convicted	\$7.50	\$2.65
Newcastle Coal Co., Ltd.	Miner	Was in possession of one match, while underground. (Sec. 64 [3]) ..	Convicted	\$7.50	\$2.40
Newcastle Coal Co., Ltd.	Miner	Was in possession of pipe and smok- ing tobacco.	Convicted	\$10.00	\$2.65
Newcastle Coal Co., Ltd.	Miner	Was in possession of one box matches, (Sec. 64 [3])	Convicted	\$7.50	\$2.65
Newcastle Coal Co., Ltd.	Miner	Was in possession of two matches, while underground. (Sec. 64 [3]) ..	Convicted	\$7.50	\$2.65
Newcastle Coal Co., Ltd.	Miner	Was in possession of three matches, while underground. (Sec. 64 [3]) ..	Convicted	\$7.50	\$2.65

DEPARTMENT OF PUBLIC WORKS

LIST OF PROSECUTIONS UNDER THE MINES ACT—Continued.

Mine at Which Contravention Was Committed	Description of Defendant	Offence Charged	Result of Proceedings	Penalty	Costs
Newcastle Coal Co., Ltd.	Miner	Was in possession of seven matches while underground. (Sec. 64 [37])	Convicted	\$7.50	\$2.65
Newcastle Coal Co., Ltd.	Labourer	Was in possession of one match and cigarette papers. (Sec. 64 [3]). ..	Convicted	\$7.50	\$2.65
Capital Coal Co., Ltd.	Operator	Operating without certificate. Sec. 26	Convicted	\$5.00	\$2.00
Capital Coal Co., Ltd.	Miner	Entered mine prior to inspection (Sec. 60 [2]).	Convicted	\$5.00	\$2.00
Brazeau Collieries, Ltd.	Car Pusher	Riding cars. (Sec. 103).	Discharged ..		
Georgetown Collieries, Ltd.	Miner	In possession of matches. (Sec. 64)	Convicted	\$4.00.	\$6.00
Georgetown Collieries, Ltd.	Backhand	In possession of smoking tobacco. (Sec. 64 [3]).	Convicted	\$2.00	\$6.00
Georgetown Collieries, Ltd.	Backhand	ditto ditto	Discharged ..		
Georgetown Collieries, Ltd.	Backhand	ditto ditto	Convicted	\$5.00.	\$6.00
Georgetown Collieries, Ltd.	Backhand	ditto ditto	Convicted	\$5.00.	\$6.00
West Canadian Collieries, Ltd., (Bellevue)	Miner	Travelled on haulage road during pro- hibited hours. (Sec. 97).	Convicted	\$2.00	\$4.25
West Canadian Collieries, Ltd., (Bellevue)	Miner	Travelled on haulage road during pro- hibited hours. (Sec. 97).	Convicted	\$2.00	\$4.25

LIST OF PROSECUTIONS UNDER THE MINES ACT.—Continued.

Mine at Which Contravention was Committed	Description of Defendant	Offence Charged	Result of Proceedings	Penalty	Costs
West Canadian Collieries, Ltd., (Bellevue)	Miner	Travelled on haulage road during prohibited hours. (Sec. 97).	Convicted	\$2.00	\$4.25
West Canadian Collieries, Ltd., (Bellevue)	Miner	ditto	Convicted	\$2.00	\$4.25
West Canadian Collieries, Ltd., (Bellevue)	Miner	ditto	Convicted	\$2.00	\$4.25
West Canadian Collieries, Ltd., (Bellevue)	Miner	ditto	Convicted	\$10.00	\$6.00
Hillcrest Collieries, Ltd.	Miner	Came to work intoxicated. (Sec. 100)	Convicted	\$2.00	\$4.00
Hillcrest Collieries, Ltd.	Miner	Left explosives in mine. (Sec. 113 [6])	Convicted	\$25.00	\$4.50
Hillcrest Collieries, Ltd.	Miner	Pierced safety lamp in mine with pick. (Sec. 113 [3]).	Convicted	\$5.00	\$5.00
Hillcrest Collieries, Ltd.	Driver Boss	Struck man while in execution of his duty.	Convicted	\$10.00	\$5.50
Hillcrest Collieries, Ltd.	Miner	Came to work intoxicated. (Sec. 100)	Convicted	\$10.00	\$5.50
Hillcrest Collieries, Ltd.	Chute Loader	Failed to exercise care in running cars. (Sec. 115 [5]).	Convicted	\$10.00	\$5.50
Hillcrest Collieries, Ltd.	Chute Loader	Ran car into switch, causing danger. (Sec. 97).	Convicted	\$10.00	\$5.50
Hillcrest Collieries, Ltd.	Chute Loader	ditto	Convicted	\$10.00	\$5.50
William Kummer, High River Operator	Operator	No certified person in charge. (Sec. 29 [2]).	Discharged ..		
William Kummer, High River Operator	Operator	Plan not kept. (Sec. 25).	Convicted	\$2.50	

Fire Boss Certificate No. 95, held by William Roberts, was suspended from February 24th, 1915, until October 1st, 1915, after an investigation at which evidence was given which showed that by Roberts neglecting to place a fence across a dangerous place, an accident was caused.

Provisional Certificate No. 221, authorizing the above person to act as Overman at the mine operated by the Twin City Coal Co. Ltd., was also cancelled on February 19th, 1915.

Third Class Certificate No. 78, held by William Pieton, was suspended from December 5th, 1914, to January 1st, 1916, owing to gross negligence on his part, resulting in a shot-firing accident at the mine operated by the Leitch Collieries, Ltd., near Passburg.

MINES OPENED DURING THE YEAR 1915.

No.	OPERATED BY	ADDRESS	CHARACTER OF COAL
474	Armour & Stauffer	Morrin	Lignite
475	Aune, George	Morrin	Lignite
620	Alberta Block Coal Co.	Drumbeller	Lignite
464	Brooks, B. T.	Drumbeller	Lignite
481	Berford, E.	Lethbridge (Warner)	Lignite
485	Black Diamonds Oil Fields, Ltd.	Lineham	Lignite
486	Brown, C. E.	Hanna	Lignite
490	Bryanton, I. K.	Garden Plain	Lignite
619	Ball, Matthew	Brida	Lignite
473	Cook, W. R.	Morrin	Lignite
492	Cattenach, Donald	Garden Plain	Lignite
498	Carter, M. M.	Halkirk	Lignite
609	Carlson, John	Donalda	Lignite
605	Donaldson, Chris. S.	Commerce	Lignite
614	Dietrich Bros. & Johnson	Hastings Coulee	Lignite
468	McFadden & Farnell	Big Valley	Lignite
600	Ferguson, David	Elcan	Lignite
487	Giedd, Fred	Dowling Lake	Lignite
623	Gordon, D. R.	Trochu	Lignite
472	Hilegrand, E.	Morrin	Lignite
477	Holliday, George William	Delia	Lignite
499	Howells, John	Elcan	Lignite
470	Joberg, A. F.	Delia	Lignite
480	Klump, Dan	Delia	Lignite
484	Krozier, John	Hutton	Lignite
496	Kirkby, Bert A.	Dowling Lake	Lignite
467	Lancaster & Willan	Camrose	Lignite
601	Law, George	Round Hill	Lignite
618	Lux & Harrison	Foreman	Lignite
466	Moore, Clarke	Eyremore	Lignite
476	McNaughton, H.	Champion	Lignite
478	Mason, Hugh A.	Delia	Lignite
489	Murray, John	Grassy Lake	Lignite
602	Manchenko, Taras	Little Plum	Lignite
606	Morris, M. J.	Lundbreck	Lignite
612	McLean, Charles	Hanna	Lignite
615	Martin, Chas. F.	Daysland	Lignite
617	Morland Bros.	Stettler	Lignite
622	Miner, Albert	Ferry Point	Lignite
607	Pleming & Reigal	Donalda	Lignite
611	Purdy, George	Hanna	Lignite
621	Patterson, Chas. H.	Carbon	Lignite
479	Royal, Edward	Craigmyle	Lignite
465	Raisbeck, Luke	Grassy Lake	Lignite

MINES OPENED DURING THE YEAR 1915.—Continued.

No.	OPERATED BY	ADDRESS	CHARACTER OF COAL
469	Ross, R. A.	Scollard	Lignite
608	Richmond, Andrew	Erskine	Lignite
610	Strilczyk, Leon	Round Hill	Lignite
494	Smithson, Irving	Halkirk	Lignite
625	Sikstrum, —	Meeting Creek	Lignite
491	Tolton & Sinclair	Parr	Lignite
495	Thompson, Ole	Brida	Lignite
603	Tebow, Fred	Donalda	Lignite
616	Tate, John F.	Ferry Point	Lignite
471	Wooden, Clyde M.	Scollard	Lignite
497	Wadsworth, S.	Hanna	Lignite
604	Wallace, A. L.	Donalda	Lignite
624	Williams, C.	Priddis	Lignite
488	Zehner & Unsworth	Grassy Plain	Lignite

MINES OPERATED DURING THE YEAR 1915.

No.	OPERATED BY	ADDRESS	CHARACTER OF COAL
54	Ashcroft, James	Lethbridge	Lignite
129	Alberta Coal Mining Co., Ltd., The	Cardiff	Lignite
167	Adams, G. F.	Calgary	Lignite
324	Annon, Dominic	Winnifred	Lignite
390	Abel, W. S.	Lucky Strike	Lignite
432	Ashmoore, James	Reid Hill	Lignite
443	Anderson, Wm. John	Sheerness	Lignite
474	Armour & Stauffer	Morrin	Lignite
475	Anne, George	Morrin	Lignite
620	Alberta Block Coal Co.	Drumheller	Lignite
72	Black Foot Indians	Gleichen	Lignite
90	Byers Bros.	Clover Bar	Lignite
135	Beale, F.	Carmangay	Lignite
137	Bennett, Isaac	Armada	Lignite
151	Brown, J. W.	Reid Hill	Lignite
153	Burm's Coal Co.	Burm's	Lignite
234	Baker Hoge & Baker	Eyremore	Lignite
245	Bish Bros & Le Gear	Hastings Coulee	Lignite
256	Brazeau Collieries, Ltd.	Nordeg	Bituminous
288	Baines, Herbert	Gadsby	Lignite
302	Battle River Collieries, Ltd.	Rosenroll	Lignite
356	Brown, Moses	Medicine Hat	Lignite
372	Bathurst Mining Co., Ltd.	Diamond City	Lignite
381	Bembridge, Arthur	Lucky Strike	Lignite
391	Block Coal Collieries, Ltd.	Taber	Lignite
404	Bergram, F. S.	Halkirk	Lignite
416	Burns Coal Mines Ltd., P.	Okotoks	Bituminous
451	Bergren, Louis	Halkirk	Lignite
454	Berford, E.	Warner	Lignite
456	Brooks, Edmund J.	Hillspring	Bituminous
464	Brooks, B. T.	Drumheller	Bituminous
485	Black Diamond Oil Fields, Ltd.	Lineham	Lignite
486	Prown, C. E.	Hanna	Lignite
490	Prvanton, I. K.	Garden Plain	Lignite
619	Ball, Matthew	Brida	Lignite
2	Canmore Coal Co., Ltd., The	Canmore	Bituminous
3	Canadian Pacific Railway Co.	Lethbridge	Lignite
9	Clover Bar Coal Co., Ltd., The	Edmonton	Lignite
32	Cardiff Collieries, Ltd., The	Cardiff	Lignite
46	Campbell & Southgate	Beverly	Lignite

MINES OPERATED DURING THE YEAR 1915,---Continued.

No.	OPERATED BY	ADDRESS	CHARACTER OF COAL
80	Canadian Pacific Railway Co.	Bankhead	Anthracite
105	Canada West Coal Co., Ltd.	Taber	Lignite
132	Canadian Pacific Railway Co.	Taber	Lignite
174	Canadian Coal & Coke Co., Ltd. ..	Coalhurst	Lignite
199	Canadian Coal & Coke Co., Ltd. ..	Beaver Mines	Bituminous
233	Canadian Coal & Coke Co., Ltd. ..	Lovett	Bituminous
237	Capital Coal Co., Ltd., The	Cardiff	Lignite
247	Chinook Coal Co., Ltd.	Commerce	Lignite
260	Connor Coal Mining Co., Ltd.	Wabamun	Lignite
267	Canadian Coal & Coke Co., Ltd. ..	St. Albert	Lignite
316	Cardston Coal & Coke Co., Ltd. ..	Cardston	Bituminous
364	Consumers' Co-operative Co., Ltd.	Calgary	Lignite
386	Cameron Bros.	Namoo	Lignite
387	Cable, A. E. H.	Gadsby	Lignite
420	Clarke & Davis	Namoo	Lignite
460	Clements, F.	Gem P. O.	Lignite
473	Cook, W. R.	Morrin	Lignite
492	Cattenach, Donald	Garden Plain	Lignite
498	Carter, M. M.	Halkirk	Lignite
609	Carlson, John	Donalda	Lignite
115	Dodds, Currie & Hoding	Carbon	Lignite
155	Dawson Coal Co., Ltd., The	Edmonton	Lignite
166	Dweak, John P.	Alix	Lignite
179	Davies, Evan T.	Milk River	Lignite
273	Davis & Green	Halkirk	Lignite
340	Dobell Coal Co., Ltd., The	Tofield	Lignite
349	Drumheller Land Co., Ltd.	Drumheller	Lignite
362	Duell, Richard	Longview	Lignite
368	Duncan, Dr. J. H.	Etzikom	Lignite
380	Douaghy, John	Delia	Lignite
397	Duggan, Wm. H.	Beverly	Lignite
417	Davies, George	Castor	Lignite
453	Davis, John	Pincher Creek	Lignite
463	Dennis, Wilson	Maycroft	Bituminous
605	Donaldson, Chris. S.	Commerce	Lignite
614	Dietrich Bros. & Johnston	Hastings Coulee	Lignite
49	Edmonton Standard Coal Co., Ltd.	Edmonton	Lignite
131	Ensign Coal Mining Co.	Elcan	Lignite
296	Ellis Bros.	Champion	Lignite
48	Franco-Canadian Collieries, Ltd. .	Frank	Bituminous
243	Fortner & Wright	Castor	Lignite
342	Foote, James C.	Windy Ridge	Lignite
455	Fitzpatrick, Daniel	Fishburn	Bituminous
600	Ferguson, David	Elcan	Lignite
99	Great West Coal Co., Ltd., The ..	Clover Bar	Lignite
201	Golden West Coal Mining Co., Ltd.	Taber	Lignite
231	Georgetown Collieries, Ltd., The .	Canmore	Bituminous
283	Great West Coal Co., Ltd., The ..	Clover Bar	Lignite
289	Gray, Armour	Gadsby	Lignite
299	Gilbert, O. N.	Rosebud Creek	Lignite
459	Gardner, Fred	Swalwell	Lignite
487	Gledd, Fred	Dowling Lake	Lignite
623	Gordon, D. R.	Trochu	Lignite
40	Hillcrest Collieries, Ltd.	Hillcrest	Bituminous
43	Humberstone Coal Co., The	Beverly	Lignite
54	Harrison, S.	Lethbridge	Lignite
181	Hart, Edward	Taber	Lignite
189	Headstrom, Charles J.	Carbon	Lignite
212	Hilker, Carl Gus	Halkirk	Lignite
214	Halbert, Wm.	Three Hills	Lignite
224	Henderson, Samuel	Brunetta	Bituminous

MINES OPERATED DURING THE YEAR 1915.—Continued.

No.	OPERATED BY	ADDRESS	CHARACTER OF COAL
271	Hollander, Carl E.	Milk River	Lignite
272	Hutchison, John S.	Bow Island	Lignite
308	Hughson, H. B.	Lucky Strike	Lignite
309	Haeckl, J. A.	Fraserton	Lignite
315	Halbert Bros.	Trochu	Lignite
329	Heaney, John	Castor	Lignite
335	Hutchisson, W. S.	Drumheller	Lignite
345	Henry, C. F.	Bow Island	Lignite
354	Hand Hill Coal Co.	Delia	Lignite
377	Hancock, Mark	Grassy Lake	Lignite
426	Halbert, Wm.	Trochu	Lignite
427	Hronek, Benjamin	Halkirk	Lignite
437	Hodson, Wm. H.	Queenstown	Lignite
472	Hildegrand, —.	Morrin	Lignite
477	Holliday, George Wm.	Delia	Lignite
499	Howells, John	Elcan	Lignite
88	International Coal and Coke Co., Ltd., The	Coleman	Bituminous
162	Jaynes, William	Magrath	Lignite
242	Johnson, J. S.	Heatherbrae	Lignite
280	Jasper Park Collieries, Ltd.	Pocahontas	Bituminous
325	Jhakull, Peter	Castor	Lignite
407	Jaynes, Robert	Milk River	Lignite
444	Jackson, Anthony	Twining	Lignite
462	Jeffrey, James	Maycroft	Bituminous
470	Joberg, A. F.	Delia	Lignite
69	Keith & Fulton	Edmonton	Lignite
120	Kummer, William	Loch Sloy	Lignite
178	Kelly, Mrs. E.	Namao	Lignite
194	Knee Hill Coal Co., Ltd., The	Ghost Pine Creek	Lignite
219	Knolton, G. H.	Bituma	Bituminous
333	Kovaice, Frank	Granlea	Lignite
375	Kane, T. A.	Garden Plain	Lignite
384	Knee Hill Coal Co., Ltd., The	Three Hills	Lignite
399	Koffler, Mike	Prosby	Lignite
440	Kaye, Herchel	Maycroft	Bituminous
480	Klump, Daniel	Delia	Lignite
484	Krozler, John	Hutton	Lignite
496	Kirkby, Bert. A.	Dowling Lake	Lignite
192	Lethbridge. City of	Lethbridge	Lignite
330	Link Coal Co., The	Pincher Creek	Bituminous
423	Loyselle, A. O.	Trochu	Lignite
441	Linder, Carl	Halkirk	Lignite
467	Lancaster & Willian	Camrose	Lignite
601	Law, George	Round Hill	Lignite
618	Lux & Harrison	Foreman	Lignite
30	McPherson, A. D.	Black Diamond	Lignite
59	Marlow & Cartwright	Lundbreck	Bituminous
149	McDevitt, J. J.	Tofield	Lignite
180	Mills, H. J.	Grassy Lake	Lignite
204	McGillivray Creek Coal & Coke Co., Ltd.	Coleman	Bituminous
215	McKenzie, E. N.	Dodds	Lignite
228	Marsh, John Henry	Taber	Lignite
229	Marsh, William	Taber	Lignite
253	McKinnon, A. D.	Pincher Creek	Bituminous
262	McGary, James	Sheerness	Lignite
279	McKav, Daniel G.	Milk River	Lignite
282	Mountain Park Coal Co., Ltd.	Mountain Park	Bituminous

MINES OPERATED DURING THE YEAR 1915.---Continued.

No.	OPERATED BY	ADDRESS	CHARACTER OF COAL
304	McLean, Hugh	Castor	Lignite
318	McKenzie, Duncan	Carbon	Lignite
323	Morgan, Arthur	Bow Island	Lignite
337	McKinlay, Tom	Trochu	Lignite
367	Midland Collieries, Ltd.	Drumheller	Lignite
295	Moloy, Michael	Picture Butte	Lignite
398	McCafferty, Thomas	Fertility	Lignite
405	McIntyre, William H.	Magrath	Lignite
415	McKenzie, H.	Parr	Lignite
424	Mullen Coal Co.	Wabamun	Lignite
429	McKenzie & Mann	Entrance	Lignite
433	McCulloch Bros.	Lineham	Lignite
447	Martin, Louis	Loveland	Lignite
466	Moore, Clarke	Eyremore	Lignite
468	McFadden & Farnell	Big Valley	Lignite
476	McNaughton, H.	Champion	Lignite
470	Mason, Hugh A.	Delia	Lignite
489	Murray, John	Grassy Lake	Lignite
602	Manchenco, Taras	Little Plume	Lignite
606	Morris, M. J.	Lundbreck	Lignite
612	McLean, Charles	Tanna	Lignite
615	Martin, Charles F.	Daysland	Lignite
617	Morland Bros.	Stettler	Lignite
622	Miner, Albert	Ferry Point	Lignite
203	New Barnes Coal Co.	Royal View, Lethbridge	Lignite
257	Noble, William G.	Tutton	Lignite
275	National Coal Co., The	Castor	Lignite
317	Newcastle Coal Co., Ltd.	Drumheller	Lignite
348	Neisner, John	Munson	Lignite
412	New Era Coal Co., Ltd.	Wabamun	Lignite
613	Norman, Oscar	Donalda	Lignite
37	Oliphant, J. H.	Medicine Hat	Lignite
56	Oliver, Ed.	Magrath	Lignite
91	Ottewell, R. P.	Clover Bar	Lignite
229	O'Neill, M. J.	Winnifred	Lignite
295	Owen, J. H.	Pincher Creek	Bituminous
187	Poxon, W.	Carbon	Lignite
226	Prairie Coal Co., Ltd.	Eyremore	Lignite
227	Pembina Coal Operators, Ltd.	Evansburgh	Lignite
400	Peairs, J. P.	Winnifred	Lignite
413	Page & Dayton	Raymond	Lignite
434	Premier Coal Co.	Taber	Lignite
439	Premier Coal Co.	Drumheller	Lignite
607	Pleming & Reigal	Donalda	Lignite
611	Purdy, George	Hanna	Lignite
621	Patterson, Chas. H.	Carbon	Lignite
55	Rollingson, John	Lethbridge	Lignite
82	Regal Collieries, Ltd.	Taber	Lignite
165	Redcliff Brick & Coal Co., Ltd.	Redcliff	Lignite
169	Russell, John	Mitford	Bituminous
170	Rock Springs Coal & Brick Co., Ltd.	Elcan	Lignite
250	Round Hill Collieries, Ltd., The	Round Hill	Lignite
346	Rosedale Coal & Clay Products, Co., Ltd.	Rosedale (Drumheller)	Lignite
347	Rosedale Coal Mining Co., Ltd.	Drumheller	Lignite
353	Roberts, William	Foremost	Lignite
379	Redcliff Pressed Brick Co., Ltd.	Redcliff	Lignite
402	Red Deer Valley Coal Co., Ltd.	Drumheller	Lignite
450	Robinson, William	Strome	Lignite

MINES OPERATED DURING THE YEAR 1915.—Continued.

No.	OPERATED BY	ADDRESS	CHARACTER OF COAL
465	Raisbeck, Luke	Grassy Lake	Lignite
469	Ross, R. A.	Scollard	Lignite
479	Royal, Edward	Craigmyle	Lignite
608	Richmond, Andrew	Erskine	Lignite
101	Sturgeon Consolidated Collieries, Ltd.	Edmonton	Lignite
241	Spicer Coal Co., The	Dinant	Lignite
244	Stony Creek Collieries, Ltd., The	Camrose	Lignite
249	Schares, J. M.	Wanda	Lignite
264	Stavely Coal Mining Co.	Long Coulee (Ch'pion)	Lignite
265	Salisbury, R. A.	Winnifred	Lignite
268	Stradder & Green	Halkirk	Lignite
276	Slockett & Murray	Diamond City	Lignite
341	Santoni, Louis	Prosby	Lignite
358	Salisbury, Robert A.	Winnifred	Lignite
360	Shultz, J. B.	Standard	Lignite
370	Schmidt, Stephen	Prosby	Lignite
388	Saunders Creek Coal Co., Ltd.	Rocky Mountain House	Lignite
389	Smith, Frank	Namao	Lignite
421	Sheets, Daniel T.	Lucky Strike	Lignite
422	Sterling Coal Co., Ltd., The	Drumheller	Lignite
436	Star Coal Mines, Ltd.	Rosedale (Drumheller)	Lignite
452	Sparrow, Thomas J.	Pincher Creek	Bituminous
461	Smith, T. E.	Yetwood	Lignite
494	Smithson, Irving	Halkirk	Lignite
610	Strilczyk, Leo	Round Hill	Lignite
625	Sikstrum, —	Meeting Creek	Lignite
113	Trentham, Albert	Three Hills	Lignite
136	Therriault, Henry	Long Coulee	Lignite
177	Twin City Coal Co., Ltd.	Edmonton South	Lignite
252	Tofield Coal Co., Ltd.	Tofield	Lignite
449	Turney, J. R.	Hastings Coulee	Lignite
491	Tolton & Sinclair	Parr	Lignite
495	Thompson, Ole	Brida	Lignite
603	Tebow, Fred	Donalda	Lignite
616	Tate, John F.	Ferry Point	Lignite
29	White Star Coal Co., Ltd.	Edmonton South	Lignite
87	West Canadian Collieries, Ltd.	Bellevue	Lignite
106	White Ash Collieries, Ltd., The	Taber	Lignite
142	Watson, George	Three Hills	Lignite
148	Western Coals, Ltd.	Edmonton	Lignite
193	West Canadian Collieries, Ltd.	Blairmore	Lignite
198	Watkins, W. E.	Champion	Lignite
251	Wilkinson, Julius	Daysland	Lignite
291	Wagner, Joseph	Gadsby	Lignite
303	Watson, George	Three Hills	Lignite
314	Walsh, Wm. R.	Ardley	Lignite
321	Walker, Col. James A.	Sheerness	Lignite
361	Woolings, Joseph	Priddis	Lignite
396	West Canadian Collieries, Ltd.	Greenhill Mine	Lignite
409	Wall, John H.	Raymond	Lignite
419	Wabamun Power & Coal Co., Ltd.	Wabamun	Lignite
428	Wilcox, Fiss & Co.	Namao	Lignite
430	Weaver, Hugh	Edberg	Lignite
442	Willescroft, W. and G.	Namao	Lignite
445	Wilson, Chas. S.	Twining	Lignite
448	Wallwork, Walter	Bow Island	Lignite
471	Wooden, Clyde M.	Scollard	Lignite
497	Wadsworth, S.	Hanna	Lignite
604	Wallace, A. L.	Donalda	Lignite
624	Williams, C.	Priddis	Lignite

MINES OPERATED DURING THE YEAR 1915.--Continued.

No.	OPERATED BY	ADDRESS	CHARACTER OF COAL
220	Yellowhead Pass Coal & Coke Co. Ltd., The	Coalspur	Lignite
328	Yard, George C.	Huxley	Lignite
403	Zarth & Emburg	Munson	Lignite
488	Zehner & Unsworth	Garden Plain	Lignite

MINES RE-OPENED DURING 1915.

No.	Operated by	Address
390	Abel, W. S.	Lucky Strike
356	Brown, Moses	Medicine Hat
90	Byers Bros.	Clover Bar
289	Gray, Armour	Gadsby
299	Gilbert, O. N.	Rosebud Creek
181	Hart, Edward	Taber
212	Hilker, Carl Gus	Halkirk
224	Henderson, Samuel	Brunetta
309	Haeckl, J. O.	Fraserton
335	Hutchisson, W. S.	Drumheller
354	Hand Hill Coal Co.	Delia
426	Halbert, Wm.	Trochu
325	Jhackull, Peter	Castor
337	McKinlay, Tom	Trochu
415	MacKenzie, H.	Parr
257	Noble, Wm. G.	Hutton
317	Newcastle Coal Co., Ltd.	Drumheller
37	Oliphant, J. H.	Medicine Hat
165	Redcliff Brick and Coal Co., Ltd.	Redcliff
422	Sterling Coal Co., The.	Drumheller
389	Smith, Frank	Namao
291	Wagner, Joseph	Gadsby
488	Zehner & Unsworth	Garden Plains

MINES ABANDONED DURING 1915

No.	OPERATED BY	ADDRESS	CHARACTER OF COAL
390	Abel, W. S.	Lucky Strike	Lignite
432	Ashmore, James	Reid Hill	Lignite
474	Armour & Stauffer	Morin	Lignite
375	Aune, George	Morin	Lignite
137	Bennett, Isaac	Armada	Lignite
372	Bathurst Mining Co., Ltd.	Diamond City	Lignite
404	Bergram, S.	Halkirk	Lignite
416	Burns Coal Mines, Ltd., P.	Okotoks	Lignite
456	Brooks, Edmund J.	Hill Spring	Lignite
481	Berford, E.	Warner	Lignite
485	Black Diamond Oil Fields, Ltd. .	Lineham	Lignite
135	Beale, F.	Carmangay	Lignite
199	Canadian Coal & Coke Co., Ltd. (Beaver Mines)	Beaver Mines	Bituminous
316	Cardston Coal & Coke Co., Ltd. .	Cardston	Lignite
386	Cameron Bros.	Namao	Lignite
420	Clarke & Davis	Namao	Lignite
492	Cattenach, Donald	Garden Plain	Lignite
368	Duncan, J. H., M.D.	Etzikom	Lignite
397	Duggin, Wm. H.	Beverly	Lignite
453	Davis, John	Pincher Creek	Bituminous
463	Dennis, Wilson	Maycroft	Lignite
49	Edmonton Standard Coal Co., (Flooded)	Edmonton	Lignite
243	Fortner & Wright	Castor	Lignite
342	Foote, James C.	Windy Ridge	Lignite
600	Ferguson, David	Elcan	Lignite
283	Great West Coal Co., Ltd., The (Great West Mine)	Clover Bar	Lignite
459	Gardner, Fred	Swalwell	Lignite
487	Giedd, Fred	Dowling Lake	Lignite
212	Hilker, Carl Gus	Halkirk	Lignite
214	Halbert, Wm.	Three Hills	Lignite
272	Hutchison, John S.	Bow Island	Lignite
309	Haeckl, J. A.	Fraserton	Lignite
354	Hand Hill Coal Co.	Delia	Lignite
437	Hodson, Wm. H.	Queenstown	Lignite
335	Hutchison, W. S.	Drumheller	Lignite
407	Javnes, Robert	Milk Creek	Lignite
462	Jeffrey, James	Maycroft	Bituminous
470	Joberg, A. F.	Delia	Lignite
53	Knee Hill Coal Co., The	Carbon	Lignite
194	Knee Hill Coal Co., The	Ghost Pine Creek	Lignite
219	Knowlton, G. H.	Bituma	Bituminous
480	Klump, Dan	Delia	Lignite
126	Leitch Collieries, Ltd., The	Passburg	Bituminous
467	Lancaster & Willan	Camrose	Lignite
133	Manle Leaf Coal Co.,	Bellevue	Bituminous
253	McKinnon, A. D.	Pincher Creek	Bituminous
337	McKinlay, Tom	Trochu	Lignite
398	McCafferty, Thos.	Fertility	Lignite
466	Moore, Clarke	Eyremore	Lignite
478	Mason, Hugh A.	Delia	Lignite

MINES ABANDONED DURING 1915---Continued.

No.	OPERATED BY	ADDRESS	CHARACTER OF COAL
489	Murray, John	Grassy Lake	Lignite
447	Martin, Louis	Loveland	Lignite
317	Newcastle Coal Co., Ltd.	Drumheller	Lignite
412	New Era Coal Co., Ltd.	Wabamun	Lignite
413	Page & Dayton	Raymond	Lignite
169	Russell, John	Mitford	Semi-Bitum.
165	Redcliff Brick and Coal Co.	Redcliff	Lignite
450	Robinson, Wm.	Strome	Lignite
469	Ross R. A.	Scollard	Lignite
276	Slockett & Murray	Diamond City	Lignite
389	Smith, Frank	Namao	Lignite
421	Sheets, Daniel T.	Lucky Strike	Lignite
422	Sterling Coal Co., Ltd., The	Drumheller	Lignite
116	Watson, George	Three Hills	Lignite
148	Western Coals, Ltd.	Edmonton	Lignite
291	Wagner, Joseph	Gadsby	Lignite
409	Wall, John H.	Raymond	Lignite
428	Wilcox, Fiss & Co.	Namao	Lignite
430	Weaver, Hugh	Edberg	Lignite
442	Williscroft, W. and G.	Namao	Lignite
220	Yellowhead Pass Coal & Coke Co., Ltd., The	Coalspur	Bituminous
488	Zehner & Unsworth	Garden Plain	Lignite

LIST OF CANDIDATES Who Successfully Passed the Examinations
Held During the Year 1915.

NAME	ADDRESS	No. of CERT.
Managers		
Dennis, Frederick Wm.	Brooks	12
Jordan, Wm.	Taber	11
Macaulay, Angus G.	Coleman	9
Robert, Louis P.	Blairmore	10
Overmen		
Allen, Wm. C.	Edmonton South	22
Briscoe, Daniel	Hillcrest	19
Coutts, George	Lethbridge	20
Dewar, Alex	Coleman	16
Foster, Wm.	Pocahontas	14
Hughes, Wm. R.	Calgary	13
Mather, John	Mountain Park	23
McDonald, Hector S.	Bellevue	17
McLellan, John A.	Lovettville	24
McDonald, Noble M.	Bellevue	18
McDonald, James O. C.	Coleman	15
Examiners		
Ashton, Wm.	Mountain Park	90
Booth, George	Edmonton South	85
Bell, William	Coleman	95
Boldon, James	Bellevue	86
Callander, Ira C.	Pocahontas	78
Coxon, Thomas	Edmonton	89
Duggan, John	Edmonton	97
Fishwick, Thos.	Mountain Park	98
Fyfe, Wm. H.	Hardieville	79
Hopkins, Wm.	Coleman	98
Huddart, Matthew	Bellevue	102
Jones, David H.	Lovettville	99
Johnson, Albert	Coleman	88
Letcher, Jos. H.	Lovettville	100
McAndrew, John	Lovettville	83
McAndrew, Robert	Lovettville	81
McIlveen, Wm.	Lovettville	80
Pavier, Ivan	Coleman	91
Price, Alfred	Beverly	..
Poole, Alex	Drumheller	..
Robinson, Edward	Drumheller	101
Rees, Gomer	Edmonton South	96
Smith, John	Blairmore	94
Thomson, David	Lovettville	82
Tennant, Robert	Bellevue	84
Troman, Samuel	Lethbridge	87
Worthington, Thos.	Lethbridge	92

CERTIFICATES Issued by the Government of the N. W. Territories
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NAME	ADDRESS	No. of CERT.
Mine Managers.		
Addie, W.	Lundbreck	19
Bastian, J.	Taber	43
Bradshaw, G. B.	Nanaimo, B.C.	61
Broome, G. H.	New Zealand	46
Brown J.	Banff	18
Collins, W. F.	Blairmore	24
Colville, A.	(Deceased)	52
Drinnan, R. G.	Fernie, B.C.	29
Elliott, D.	Blairmore	20
Emmerson, C.	Bellevue	49
Emmerson, *J.	Frank	50
Evans, D.	Michel, B.C.	1
Finlayson, J.	Frank	30
Flint, W. G.	Canmore	56
Green, R.	Blairmore	58
Hamilton, William L.	Passburg	4
Hardie, W. D. L.	Lethbridge	2
Hargreaves, James	Taber	9
Henrietta, Charles M.	Bysevilla, Ohio	26
Heathcote, Elijah	Coal Creek, B.C.	23
John, John	Fernie, B.C.	44
Jones, Samuel A.	Lethbridge	57
Kerr, Alexander	Tonkin, B.C.	27
Lewellyn, D. R.	Michel, B.C.	42
Little, John	Coalfields	5
Livingstone, Robert	Lethbridge	16
Manley, Henry Lewis	Fernie, B.C.	41
Mills, Thomas	Nanaimo, B.C.	35
Morris, Cyrus	Frank	12
Morris, James J.	Canmore	3
Morton, T. R.	Michel, B.C.	63
McEvoy, James	Fernie, B.C.	17
McLean, Donald	Ladysmith, B.C.	62
McVicar, Samuel	Frank	59
Parker, John L.	North Star	25
Pearson, R. N.	Frank	38
Pearson, Robinson	Fernie, B.C.	11
Powell, John W.	Coleman	60
Raisbeck, Luke	Taber	47
Reynolds, E. E.	Lethbridge	33
Richards, J. A.	Edmonton	39
Russell, Thomas	Victoria, B.C.	45
Sharp, Alex	Rossland, B.C.	53
Shepherd, F. H.	Victoria, B.C.	34
Simister, Charles	Fernie, B.C.	21
Smith, Frank B.	Edmonton	7
Strachan, Robert	Fernie, B.C.	31
Stockett, Thomas R., Jr.	Nanaimo, B.C.	10
Stockett, Lewis	Bankhead	51
Symons, C. C.	Coalfields	37
Waite, Archibald	Taber	15
Wall, William Henry	Nanaimo, B.C.	32
White, E. Proctor	Lethbridge	8
Whiteside, O. E. S.	Coleman	6
Williams, W. P.	Blairmore	36
Wilkinson, George	Nanaimo, B.C.	54
Wilson, Arthur R.	Lethbridge	28
Wilson, David G.	Hosmer, B.C.	22
Wright, H. B.	Fernie, B.C.	40
Wyllie, John B.	(Deceased)	13

CERTIFICATES Issued by the Government of the N.-W. Territories
Under the Coal Mines Regulation Ordinance.---Continued.

NAME	ADDRESS	NO. CERT.
Pit Bosses		
Eastian, J.	Taber	21
Bastian, T. W.	Bankhead	27
Chestnut, C.	Blairmore	30
Cortill, T.	Michel, B.C.	13
Davies, D.	Coleman	31
Davis, A.	Lethbridge	4
Duggan, R. G.	Taber	19
Emmerson, C.	Bellevue	3
Flint, W. G.	Canmore	16
Fraser, G. L.	Coleman	25
Giffen, H. R.	Coalfields, B.C.	14
Green, R.	Blairmore	17
Hall, Oliver	Bellevue	26
Jones, Samuel A.	Lethbridge	18
Kerr, John	Coalfields, B.C.	33
Livingstone, John C.	Lethbridge	5
Livingstone, Robert	Lethbridge	6
Lowrie, Ralph	Frank	34
Miller, John K.	Bankhead	29
Musgrove, John	Canmore	2
McKean, John W.	Lethbridge	24
McVicar, Samuel	Frank	23
Ostheidt, Gus	Bankhead	1
Pearson, W. G.	Frank	15
Phillips, Charles	Frank	20
Scott, Hugh	Lethbridge	7
Sequin, Joseph A.	Estevan	22
Steele, Thomas	Coleman	12
Thomas, David	Bankhead	28
Waite, Archibald	Taber	10
Weatherby, Cory	Hillcrest	11
Williams, Thomas H.	Canmore	8
Fire Bosses.		
Anderson, J.	Frank	13
Bastian, T. W.	Bankhead	30
Cawthorne, L.	Frank	46
Chestnut, C.	Blairmore	28
Churchill, J.	Frank	45
Cowan, W.	Bankhead	4
Davies, T.	Frank	49
Davies, W. J.	(Deceased)	16
Downs, T.	Canmore	24
Duggan R. G.	Taber	27
Fairhurst, H.	Lethbridge	39
Gates, H.	Coleman	26
Giffen, H. R.	Coalfields, B.C.	19
Griffiths, E. H.	Canmore	33
Hadfield, John	Canmore	23
Haines, Thomas	Coleman	37
Harrison, Thomas	Bankhead	29
Harvie, Robert	Lethbridge	40
Holmes, G. E.	Fernie, B.C.	15
Hood, Andrew	Frank	20
James, Josphe	Frank	25
Jones, Erskine	Coalfields, B.C.	47
Jones, Evan	Coalfields, B.C.	12
Jones, Samuel A.	Lethbridge	17
Livingstone, John C.	Lethbridge	18
Livingstone, Robert	Lethbridge	7

CERTIFICATES Issued by the Government of the N.-W. Territories
Under the Coal Mines Regulation Ordinance.---*Continued.*

NAME	ADDRESS	NO. CERT.
Mattson, Matt	Frank	34
Musgrove, William	Canmore	9
McCulloch, Alex	Lille	43
McDonald, J. A.	Blairmore	44
McGregor, Alex	Frank	41
McKay, John James	Lethbridge	5
McKinnon, H. G.	Canmore	36
Phillips, Charles	Frank	14
Rice, Awrey	Frank	48
Scott, Hugh	Lethbridge	8
Scott, Robert	Lethbridge	6
Sedlock, Joseph	Canmore	22
Smith, Hugh	Canmore	35
Smith, Robert	Canmore	32
Spencer, W. J.	Bankhead	51
Stott, John	Lethbridge	38
Taylor, William	Lethbridge	10
Thomas, David	Bankhead	31
Turner, Samuel H.	Frank	21
Waite, Archibald	Taber	11
Watkins, John W.	Canmore	3
Watkins, W. Ed.	Canmore	1
Webb, James F.	Canmore	42
Wilson, John	Canmore	2

CERTIFICATES Issued by the Government of the Province of Alberta
Under the Coal Mines Regulation Ordinance

NAME	ADDRESS	NO. CERT.
Mine Managers.		
Coulthard, R. W.	Blairmore	8
Fraser, Norman	Michel, B.C.	1
Graham, C.	Nanaimo, B.C.	7
Huntrods, E. S. F.	Taber	3
Little, William F.	Canmore	4
Marsh, John	Taber	6
Reed, Thomas	Northfield, B.C.	5
Robertson, John	Frank	2
Pit Bosses.		
McGregor, Alex	Frank	1
Rice, Awrey	Frank	2
Wilson, William George	Coleman	3
Fire Bosses.		
Ferguson, C. J.	Canmore	4
Rawson, Thomas Samuel	Frank	1
Salmond, James M.	Bankhead	6
Sparrow, Edwin	Frank	2
Watters, John	Bankhead	5
Wilson, William George	Coleman	3

CERTIFICATES Issued by the Government of the N.-W. Territories and
by the Government of the Province of Alberta
Being Duplicatd Certificates.

NAME	ADDRESS	NO. CERT.
Mine Managers.		
Coulthard, R. R.	Blairmore	24
Evans, D.	Michel, B.C.	14
Hargreaves, James	Taber	48
Pit Bosses.		
Chestnut, C.	Blairmore	30
Musgrove, John	Canmore	9
Musgrove, William	Canmore	32
Fire Bosses.		
Chestnut, C.	Blairmore	28
Downs, T.	Canmore	6
Hadfield, John	Coleman	21
Haliday, George William	Commerce	248
Stott, John	Lethbridge	231
Turner, Samuel H.	Frank	22

CERTIFICATES Issued by the Government of the Province of Alberta
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NAME	ADDRESS	NO. CERT.
Mine Managers.		
Alderson, Fred Dunn	(Deceased)	52
Allen, Peter	Coleman	72
Aspinwall, Francis	Bellevue	22
Ashburner, Edward	Lethbridge	40
Barnes, Arthur Winfield	Passburg	74
Baxter, Andrew W.	Lethbridge	47
Black, Ernest D.	Coalhurst	84
Christianson, Peter	Edmonton	48
Church, J. A. H.	Frank	11
Clyne, James	Canmore	69
Crowder, J.	Coleman	38
Cunningham, G. F.	Edmonton	7
Darbyshire, J.	Bellevue	35
Davidson, W. A.	Coleman	25
Davis, David	Coleman	62
De Hart, Joseph Bertram	Coalhurst	86
Dickson, G. H.	Coleman	3
Duggan, William H.	Edmonton	85
Dunn, A. C.	Edmonton	18
Ellis, W.	Nanton	15
Fraser, G. L.	Coleman	1
Givin, Homer Holt	Royal View	57
Gray, David	Cochrane	65
Guernsey, Forbes William	Bankhead	80
Hamilton, Robert	Lundbreck	4
Harrison, Stephen	Lethbridge	16
Hart, John	Edmonton	23
Holden, James	Bankhead	14
Horne Robert	Coleman	12
Horne, Robert	Coleman	6
Howells, Nathaniel	Bellevue	64

CERTIFICATES Issued by the Government of the Province of Alberta
Under The Mines Act.—*Continued.*

NAME	ADDRESS	NO. CERT.
Johnson, Moses	Taber	79
Jones, David	Strathcona	67
Kellock, George	Coleman	59
Kinsman, Alexander	Hosmer, B.C.	70
Knox, Thomas K.	Coal Creek, B.C.	28
Lee, Robert John	Elcan	56
Marshall, John William	Clover Bar	78
Mather, Thomas	Bickerdiike	81
Maxwell, William	Pincher Creek	27
Millar, Andrew A.	Edmonton	54
Milne, Morgan C.	Pocahontas	83
Moore, Samuel M.	Bankhead	26
Musgrove, William	Canmore	76
MacAulay, Donald A.	Coleman	42
McCulloch, James	Corbin, B.C.	41
McDonald, Duncan	Canmore	60
McDonald, John R.	Medicine Hat	29
McLenhan, J. A.	Strathcona	39
McMillan, J. H.	Lethbridge	17
O'Donnell, Thomas	Kipp	61
Pickles, William	Cardiff	77
Pitcher, Norman Charles	Lethbridge	75
Quigley, James S.	Hillcrest	21
Reid, John Callum	Lethbridge	53
Richards, Clifton C.	Bankhead	36
Roberts, Edward Iver	Strathcona	55
Robertson, John	Lundbreck	9
Russell, John	Clover Bar	44
Saville, Enoch O.	Taber	45
Scott, Andrew N.	Edmonton	19
Scott, Alex	Strathcona	5
Shanks, John	Coal Creek, B.C.	51
Shaw, William	Canmore	46
Shone, Samuel	(Deceased)	33
Sparrow, Edwin	Lundbreck	13
Stevens, Leonard C.	Coal Creek, B.C.	31
Stevenson, John	Lethbridge	68
Stevenson, Jr., William	Pinto, Sask.	87
Stirling, John T.	Edmonton	8
Stewart, Robert T.	Fernie, B.C.	50
Thain, Harry S.	Lethbridge	34
Thomas, John Ira	Edmonton	49
Thomas, Joseph David	Passburg	66
Thomas, Willis P.	Diamond City	58
Thorne, Benj. L.	Hosmer, B.C.	32
Wark, S. B.	Passburg	37
Watson, William	Coleman	73
Watters, John	Bankhead	30
Weatherbee, C.	Coleman	2
Willey, Edward	Fernie, B.C.	71
Williams, T. H.	Taber	10
Pit Bosses.		
Allen, Peter	Coleman	72
Anderson, J.	Bellevue	2
Aspinall, Francis	Bellevue	27
Pamling, J.	Diamond City	44
Barclay, Andrew	Frank	111
Blake, Henry	Bellevue	128
Rowie, J.	Frank	4
Brockhouse, Israel Bertram	Milk River	74

CERTIFICATES Issued by the Government of the Province of Alberta
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NAME	ADDRESS	NO. CERT.
Bridge, Edward	Bellevue	99
Brown, Allan James	Pocahontas	105
Brown, William	Commerce	126
Campbell, Kenneth S.	Blairmore	132
Clark, J. C.	Blairmore	49
Clay, E.	Oxville	28
Clemenson, John	Bankhead	58
Clyne, J.	Canmore	53
Cooke, Joseph	Burmis	66
Coupland, George	Lundbreck	77
Cranston, Michael	Pocahontas	119
Crawford, Alexander	Beaver Mines	125
Crowder, Harry	Coleman	69
Crowder, J.	Coleman	10
Dalziel, Robert	Clover Bar	122
Davies, J.	Coleman	11
Davies, S.	Coal Creek, B.C.	18
Davies, T.	Frank	54
Davies, Thomas Owen	Pincher Creek	104
Davis, J.	Lethbridge	31
Davidson, David	Blairmore	94
Digman, John Hynd	Coalhurst	134
Dixon, S.	Lille	24
Dunn, J. P.	Strathcona	9
Eccleston, W.	Michel, B.C.	16
Evans, Thomas Rhys	Coleman	137
Foster, W. R.	Michel, B.C.	51
Fox, A.	Taber	42
Francis, J.	Taber	29
Fulton, James Kennedy	Coleman	133
Garbett, Richard	Corbin, B.C.	100
Garrett, John	Blairmore	123
Gilliland, William	Strathcona	61
Hallworth, Albert	Bellevue	65
Hamilton, Allan	Pincher Creek	78
Hartley, William	Bankhead	114
Harvie, Robert	Lethbridge	1
Heeley, William Grafton	Bickerdike	80
Hill, James	Lethbridge	84
Horne, Robert	Coleman	12
Horswell, John	Cardiff	34
Howells, Nathaniel	Michel, B.C.	55
Hughes, Daniel John	Diamond City	110
Hunter, Henry	Edmonton	102
Hutton, John	Bellevue	93
Hutchinson, A. M.	Coleman	6
Johnson, Moses	Taber	46
Jones, David	Strathcona	48
Jones, Peter	Lethbridge	92
Jordon, William	Taber	112
Kaye, Herschel	Pocahontas	129
Kellock, George	Coleman	39
Kellock, James	Coleman	82
Keith, John Daniel	Coalhurst	107
Leblanc, Emile	Taber	127
Lee, Robert John	Grassy Lake	56
Letcher, William Martin	Bankhead	96
Luck, George	Bellevue	70
Massey, Harry	Corbin, B.C.	116
Mason, Samuel	Blairmore	130
Mather, Thomas	Bickerdike	106
Miard, Harry E.	Coal Creek, B.C.	64

CERTIFICATES Issued by the Government of the Province of Alberta
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NAME	ADDRESS	NO. CERT.
Moore, Thomas E.	Eyremore	47
Morgan, Daniel	Edmonton	17
Morgan, Owen	Blairmore	121
Morris, John	Lundbreck	8
Muir, David	Pincher Creek	108
Munro, William Kennedy	Blairmore	76
Murphy, Peter J.	Clover Bar	91
MacDonald, James A.	Bellevue	79
McDonald, Duncan	Canmore	60
McIntyre, John J.	Calgary	88
MacKay, Angus	St. Albert	81
McKay, Donald	Bankhead	3
McKelvie, James	Hosmer, B.C.	43
McLenhan, John A.	Strathcona	33
McMillan, Donald	Pincher Creek	71
Nicol, James	Frank	36
Oliphant, Joseph H.	Bellevue	59
Park, Stewart Gray	Lethbridge	57
Parker, Levi	Bellevue	68
Parry, Thomas	Coleman	109
Parsons, T. Lloyd	Edmonton	26
Penman, John Smith	Rosenroll	120
Pickles, William	Edmonton	35
Picton, Daniel	Passburg	118
Powell, Albert Edward	Strathcona	85
Prentice, John	Lille	45
Queen, Andrew Mitchell	Lethbridge	124
Quigley, Daniel Hugh	Lethbridge	73
Ramsay, Peter Millar	Lethbridge	63
Rankin, George	Michel, B.C.	41
Richards, Samuel	Corbin, B.C.	98
Roberts, D. E.	Coleman	14
Roberts, Ebenezer	Bellevue	87
Roberts, E. I.	Strathcona	52
Schmidt, Otto Prentiss	Camrose	115
Scott, Alexander	Pocahontas	103
Scott, Andrew N.	Edmonton	19
Shanks, David	Coal Creek, B.C.	117
Shaw, Thomas John	Canmore	75
Shaw, William	Canmore	21
Shone, Samuel	(Deceased)	23
Sihvon, William	Bellevue	40
Sloane, Thomas W.	Burmis	67
Sparrow, Edwin	Lundbreck	7
Stephenson, Joseph	Bellevue	135
Stephenson, Thomas	Bellevue	136
Stewart, J. M.	Fernie, B.C.	50
Strickland, Thomas	Clover Bar	101
Taylor, George Warren	Lethbridge	83
Taylor, Tom	Hillcrest	62
Teppo, Herman	Bellevue	15
Thain, Harry S.	Lethbridge	32
Thomas, Isaac	Coleman	131
Thomas, John	Frank	89
Thomas, John	Diamond City	30
Thomas, Joseph D.	Hosmer, B.C.	37
Thompson, Joseph	Coleman	97
Tonge, Thomas	Rickerdike	90
Watkins, W. E.	Lille	20
Watson, William	Coleman	13
Watters, Alexander Crant	Pocahontas	95
Watters, John	Bankhead	22

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Under The Mines Act.—*Continued.*

NAME	ADDRESS	NO. CERT.
Welch, James Douglas	Taber	113
Whitelaw, Thomas	Coleman	25
Winter, Archibald	Strathcona	63
Wright, J. S.	Canmore	38
Fire Bosses.		
Adlam, William	Hillcrest	108
Alderson, R. D.	Coleman	17
Allan, Alexander McD.	Hosmer, B.C.	247
Allen, William Charles	Coleman	205
Archer, Roland	Hillcrest	132
Archibald, David	Bickerdike	222
Ashurst, W.	Coleman	82
Aspinall, F.	Bellevue	32
Bainbridge, James	Pocahontas	235
Baird, John	Blairmore	243
Bansemmer, R.	Bankhead	14
Barnes, B. J.	Coal Creek, B.C.	92
Barber, J.	Frank	7
Barber, James S.	Hillcrest	144
Berford, Edward	Elcan	196
Besso, A.	Canmore	80
Blake, Henry	Bellevue	133
Blake, P.	Lundbreck	23
Blakemore, Roydon Ellers	Edmonton	227
Boulton, W. E.	Bankhead	48
Bovio, Michael	Bellevue	146
Bradley, Thomas	Hillcrest	138
Briscoe, Daniel	Hillcrest	117
Brown, Alan James	Cardiff	163
Brown, T.	Bankhead	24
Brownrigg, J. H.	Frank	35
Brovey, A. C.	Edmonton	64
Burrows, C.	Frank	40
Campbell, Kenneth S.	Edmonton	102
Carson, George	Frank	154
Carson, James	Frank	120
Catchpole, C.	Three Hills	2
Charlton, Samuel	Hillcrest	179
Clark, J. C.	Blairmore	33
Clark, Robert	Lethbridge	212
Clemenson, John	Bankhead	105
Clyne, J.	Canmore	65
Cole, J. J.	Bankhead	66
Cooke, J.	Bankhead	4
Coombs, Walter Percy	Taber	164
Coupland, Edward	Lundbreck	173
Coupland, George	Bellevue	148
Coutts, George	Lethbridge	210
Cox, John	Coleman	193
Cranston, Michael	Clover Bar	218
Crawford, George	Frank	160
Crawford, John	Beaver Mines	197
Crockett, Levi A.	Hillcrest	131
Davidson, David	Edmonton	170
Davies, Thomas Owen	Coleman	109
Devonshire, G.	Canmore	31
Digman, John H.	Royal View	198
Dixon, S.	Lille	18
Doodson, Robert	Coal Creek, B.C.	177
Draper, Robert	Cochrane	214

CERTIFICATES Issued by the Government of the Province of Alberta
Under The Mines Act.---Continued.

NAME	ADDRESS	NO. CERT.
Duggan, E. G.	Taber	41
Duncan, Ninian Selkirk	Cochrane	211
Duthie, Alexander Ferris	Pocahontas	184
Eccleston, W.	Michel, B.C.	20
Embree, Merton Byers	Bankhead	239
Evans, D.	Frank	83
Evans, H.	Taber	94
Evans, Hugh	Lethbridge	156
Fisher, Samuel	Passburg	169
Fiske, G. E.	Edmonton	88
Ford, Allen	Burmis	183
Fowers, C. W.	Canmore	50
Fox, A.	Taber	55
Fraser, J.	Coleman	8
Garbett, Richard	Michel, B.C.	180
Garrett, John	Lille	147
Gatiss, R.	Long Coulee	85
Gillespie, John Maclare	Coleman	111
Gilliland, William	Strathcona	123
Gladwin, J.	Edmonton	97
Gorton, James	Hillcrest	203
Gregory, John B.	Passburg	128
Griffiths, John Thomas	Lille	168
Griffiths, T. J.	Lille	77
Gwilliam, David J. M.	Hillcrest	130
Halliday, George	Champion	155
Hallworth, Albert	Bellevue	52
Hamilton, Charles	Edmonton	36
Hannen, James	Canmore	1
Harries, Henry Cecil	Coleman	209
Hartley, William	Bankhead	110
Harvie, John	Taber	68
Hayes, Robert	Lundbreck	60
Heap, Robert	Lundbreck	206
Henderson, James	Reid Hill	134
Henderson, Samuel	Reid Hill	136
Henderson, W.	Minott	61
Higgins, Alfred	Bankhead	25
Hill, James	Royal View	114
Hilling, James	Coleman	43
Holden, James	Bankhead	13
Hughes, William Robert	Lille	181
Hulme, Charles	Hillcrest	124
Humble, Stephen T.	Bellevue	29
Hunter, Alexander Brunton	Coleman	207
Hutchison, Peter	Frank	202
Hutton, David Telfer	Bellevue	241
Hutton, George	Bellevue	186
Hutton, Isaac	Bellevue	99
Hutton, John	Bellevue	135
Ironmonger, John	Hillcrest	145
Jackson, John	Bellevue	246
James, Henry	Coleman	53
James, William	Pocahontas	234
Jones, David	Edmonton	69
Jones, Jack	Cardiff	127
Jones, Peter	Lethbridge	195
Jordon, William	Taber	220
Joyce, Michael	Bickerdike	224
Kaye, Herschel	Maycroft	191
Kemp, David	Beaver Mines	201
Kerr, Robert	Lundbreck	76

CERTIFICATES Issued by the Government of the Province of Alberta
Under The Mines Act.---Continued.

NAME	ADDRESS	NO. CERT.
Kerr, Robert T.	Passburg	75
Kerr, William R.	Coleman	89
Kirkeberg, Henry S.	Michel, B.C.	87
Laight, Jonas	Medicine Hat	233
Lamont, David	Frank	98
Learmouth, A. J.	Lundbreck	42
Leblanc, Emile	Coleman	153
Letcher, John J.	Hillcrest	149
Littler, John	Bankhead	190
Littler, Mathew	Michel, B.C.	226
Littler, Robert	Michel, B.C.	166
Love, William	Edmonton	86
Loxton, George	Fernie, B.C.	176
Ludbrook, Ellis Edward	Bickerdike	237
Machin, J. C.	Strathcona	46
Mackie, John	Corbin, B.C.	221
Makin, John William	Coleman	240
Mason, Samuel	Taber	187
Massey, Harry	Michel, B.C.	172
Mather, Thomas	Taber	96
Melling, Peter	Coalhurst	208
Miller, Walter	Bellevue	159
Moore, James H.	Coleman	167
Moore, Thomas E.	Eyremore	56
Morgan, Owen	Coleman	143
Morris, David	Edmonton	45
Morrison, Malcolm	Coleman	189
Muir, David	Lundbreck	151
Munro, William K.	Lille	150
Murray, John	Lille	174
McDevitt, James J.	Tofield	129
McDonald, Duncan	Canmore	112
McDonald, Hector	Bankhead	115
McDonald, James A.	Lille	91
McDonald, James Otis Cove	Coleman	225
McDonald, William C.	Lethbridge	122
McGarry, Martin	Michel, B.C.	59
McGeough, Joseph Patrick	Bellevue	219
McGladrie, John	Lille	152
McKinnon, A. J.	Canmore	62
McLeary, Stewart	Lethbridge	58
McLenhan, John A.	Strathcona	51
McMillan, Donald	Coleman	107
McMillan, William D.	Lethbridge	72
McMullin, Joseph	Hillcrest	171
McVey, William	Frank	39
Nanson, Thomas H.	Canmore	15
Nelson, Horatio	Lundbreck	11
Nicol, James	Frank	34
O'Donnell, Thomas	Kipp	139
Oliphant, J. H.	Frank	26
Oliphant, John	Bellevue	79
Ottewell, William John	Clover Bar	245
Park, Stewart G.	Lethbridge	121
Park, William	Lethbridge	194
Parker, Levi	Bellevue	100
Parkes, John Thomas	Lethbridge	236
Parry, Thomas H.	Hillcrest	119
Patterson, John	Hillcrest	126
Pickering, Gabe	Taber	104
Pieton, Daniel	Passburg	178
Pieton, William	Frank	78

CERTIFICATES Issued by the Government of the Province of Alberta
Under The Mines Act.--*Continued.*

NAME	ADDRESS	NO. CERT.
Pounder, George	Pincher Creek	84
Powell, Albert E.	Clover Bar	71
Prentice, John	Lille	67
Queen, Andrew Mitchell	Lethbridge	228
Quigley, Daniel H.	Lethbridge	157
Radford, James	Bellevue	200
Rae, John	Coleman	242
Rawlinson, Roland	Burmis	182
Rayner, Frederick	Frank	188
Reid, James	Taber	158
Richards, Evan	Cardiff	162
Richards, George	Coleman	137
Richards, Samuel	Corbin, B.C.	175
Richardson, Alfred	Lethbridge	125
Roberts, Ebenezer	Passburg	118
Roberts, John	Nelson, B.C.	140
Roberts, William	Strathcona	95
Robinson, John Herbert	Hillcrest	106
Rose, Walter	Lundbreck	54
Rowbotham, William Henry	Royal View	116
Saudino, Joe	Bellevue	238
Schmidt, O. P.	Edmonton	44
Scott, Andrew N.	Edmonton	28
Scott, Alexander	Pocahontas	185
Shaw, Eli	Canmore	229
Shaw, Thomas John	Canmore	113
Sherratt, Owen, Sr.	Coleman	199
Sihvon, William	Bellevue	27
Singleton, Robert	Lundbreck	47
Smith, A. J. P.	Bellevue	103
Smith, Ralph	Canmore	3
Smith, Thomas	Hillcrest	216
Stephenson, Joseph	Commerce	232
Stephenson, Thomas	Bellevue	230
Stobbs, Joseph	Diamond City	217
Taylor, Thomas	Lundbreck	30
Teppo, Herman	Bellevue	19
Thomas, Isaac	Coleman	204
Thomas, Joseph D.	Frank	81
Thomas, John J.	Frank	74
Thompson, Joseph	Coleman	165
Thompson, Thomas	Coleman	93
Thompson, Thomas	Lundbreck	16
Thomson, Thomas Wilson	Bankhead	161
Tonge, Thomas	Lundbreck	5
Tully, Thomas	Fernie, B.C.	215
Turner, William	Hillcrest	244
Vola, Serafino	Canmore	63
Watters, A. G.	Bankhead	49
Welsh, William	Lundbreck	9
Weston, Thomas	Strathcona	73
White, Harry	Frank	90
Williams, John Jerkyn	Rickerdike	223
Williams, Walter Edward	Clover Bar	213
Willmott, William	Canmore	38
Wright, John S.	Canmore	12
Wrigley, Walter	Frank	37
Young, Samuel	Cardiff	101
Young, Thomas	Taber	57

CERTIFICATES Issued by the Government of the Province of Alberta
Under The Mines Act.---*Continued.*

NAME	ADDRESS	NO. CERT.
Managers.		
Brydon, Andrew Dempster	Canmore	4
Crowder, Harry	Edmonton	5
Dennis, Frederick William	Brooks	12
Jordan, William	Taber	11
Leblanc, Emile	Taber	6
Macaulay, Angus G.	Coleman	9
McKelvie, James	Nordegg	7
Reid, Adam Hugh	Commerce	3
Russell, James	Lethbridge	8
Robert, Louis P.	Blairmore	10
Welch, James Douglas	Nordegg	1
Williams, Thomas B.	Canmore	2
Overmen.		
Allan, William C.	Edmonton	22
Bilson, George Herbert	Beverly	2
Brisco, Daniel	Hillcrest	19
Brownrigg, John H.	Bankhead	21
Coupland, Edward	Bellevue	86
Coutts, George	Lethbridge	20
Dennis, Frederick William	Lethbridge	3
Dewar, Alexander	Coleman	16
Foster, William	Pocahontas	78
Hunter, Charles	Beverly	4
Hunter, Alexander Brunton	Coleman	7
Harries, Henry Cecil	Coleman	9
Heathcote, Joseph	Edmonton	10
Hughes, William R.	Calgary	13
James, William	Pocahontas	5
Littler, Robert	Bankhead	6
McDonald, James O. C.	Coleman	15
McDonald, Hector S.	Bellevue	17
McDonald, Noble M.	Bellevue	18
McLellan, John A.	Wabamun	24
Mather, John	Mountain Park	23
Roberts, John	Bellevue	12
Williams, John Jenkyn	Lovett	11
Examiners.		
Adams, Thomas Henry	Coalhurst	16
Anderson, Andrew	Bellevue	39
Appleton, John Thomas	Mountain Park	76
Ashton, William	Mountain Park	90
Atherton, Edward	Bickerdike	40
Beal, George F.	Bellevue	7
Billington, Edward Eric	Coleman	73
Booth, George	Edmonton	85
Boldon, James	Bellevue	86
Bell, William	Coleman	95
Byron, John	Coalhurst	11
Brearley, Garnett	Lethbridge	18
Barclay, William	Bankhead	22
Brown, John Francis	Pocahontas	29
Barclay, William Greig	Pocahontas	30
Byers, John Walter	Taber	48
Clarke, Robert Gordon	Drumheller	70
Campbell, John Hugh	Canmore	71
Callander, Ira C.	Pocahontas	78

CERTIFICATES Issued by the Government of the Province of Alberta
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NAME	ADDRESS	NO. CERT.
Coxon, Thomas	Edmonton	89
Crawford, William	Lethbridge	8
Coutts, David	Hardieville	23
Crabb, Sam Alex. Buckland	Lethbridge	38
Chaplow, Joseph	Lethbridge	49
Dennis, Frederick William	Lethbridge	3
D'Altroy, Arthur Charles	Commerce	6
Devoy, William	Hardieville	9
Dean, William	Bankhead	20
Duggan, John	Edmonton	97
Evans, Nathaniel	Passburg	54
Foster, William	Pocahontas	31
Ferguson, John	Commerce	34
Fyfe, Walter H.	Lethbridge	79
Fishwick, Thomas	Mountain Park	98
Green, Henry Victor	Halkirk	1
Grant, Robert H.	Camrose	2
Grant, Robert	Lethbridge	10
Goldie, William	Lethbridge	24
Graham, Robert	Clover Bar	50
Gilday, Michael Edward	Drumheller	63
Heathcote, Joseph	Edmonton	32
Hutton, Hugh	Bellevue	60
Harmison, William	Mountain Park	41
Hargreaves, George	Lethbridge	65
Hopkins, William	Coleman	93
Huddart, Matthew	Bellevue	102
Hynd, William	Elcan	52
James, John	Pocahontas	28
Jones, David	Taber	55
Johnson, Albert	Coleman	88
Jones, Daniel H.	Lovettville	99
Kenyon, William	Mountain Park	44
Lynch, Stewart	Canmore	26
Loxton, John	Fernie, B.C.	51
Letcher, Joseph H.	Lovettville	100
Martin, William Henry	Drumheller	69
McLeod, John Alex.	Edmonton	74
Marsh, John Henry	Taber	75
McLellan, John Angus	Lovett	77
McIlveen, William	Lovett	80
McAndrews, Robert	Clover Bar	81
McAndrew, John	Lovett	83
McDonald, Noble Moore	Bellevue	5
McGowan, James Kerr	North Lethbridge	13
Muir, Alexander	Hardieville	12
Miller, Joseph	Stafford Village	14
Muir, Robert	Bankhead	21
Murray, David	Hillcrest	35
Mather, John	Bickerdike	45
Muir, James	Bankhead	57
Marsh, Ernest	Taber	61
Morgan, William John	Canmore	64
Nicol, George	Pocahontas	27
Park, Alex C.	Lethbridge	25
Pavier, Ivan	Coleman	91
Price, Private A.	Edmonton	103
Porteous, Alexander	Hillcrest	36
Purdy, Stearns J.	Bellevue	37
Parker, Joseph	Drumheller	47
Puckett, Owen Lovejoy	Lovett	53
Rankin, William	Hosmer, B.C.	4

CERTIFICATES Issued by the Government of the Province of Alberta
Under The Mines Act.---*Continued.*

NAME	ADDRESS	NO. CERT.
Rebar, Mike	Hardieville	19
Rees, Daniel	Bellevue	56
Russell, Arthur	Standard	59
Russell, John	Mitford	67
Rees, Gomer	Beverly	96
Robinson, Edward	Drumheller	101
Sinclair, James	Drumheller	68
Smith, John	Blairmore	94
Steele, John Wilson	Lethbridge	17
Severns, Matthew	Strathcona	42
Spencer, Murray A.	Lovett	43
Snarey, George	Taber	62
Thomas, John Benjamin ..	Edmonton	46
Thompson, Andrew Roger ..	Lovett	66
Thomson, David	Lovett	82
Tennant, Robert	Lethbridge	84
Troman, Samuel	Lethbridge	87
Whitefield, Isaac	Coalhurst	15
Williams, John T.	Bellevue	33
Wesnedge, William	Nordegg	58
Wardrop, James	Georgetown, Canmore ..	72
Worthington, Thomas	Lethbridge	92

LIST OF NAMES of Persons Who Hold Mine Surveyors' Certificates
and who are Qualified to Prepare Plans Under The Mines Act. :

NO. CERT.	NAME	ADDRESS
1	Aspinall, Francis	Calgary
40	Adam, William A.	Lethbridge
79	Ashburner, Edward	Edmonton
109	Allen, Peter	Coleman
30	Brown, John	Calgary
42	Billington, Ed. E.	Coleman
73	Biltery, Jean	Taber
75	Black, Ernest D.	Sewell, Man.
119	Baxter, Andrew W.	Lethbridge
20	Coulthard, Robert W.	Calgary
21	Church, James A. H.	Edmonton
22	Charlesworth, Lionel C.	Edmonton
39	Callander, Ira C.	Pocahontas
72	Charbonnier, Jules	Blairmore
80	Cote, Jean L.	Edmonton
81	Cautley, Reg. H.	Edmonton
111	Crowder, James	Three Hills
113	Cook, Arnold B.	Taber
7	Davidson, William A.	Coleman
8	Drinnan, Robert G.	Hillcrest
45	De Hart, Joseph B.	Coalhurst
49	Dougall, Ralph	Bankhead
51	Drummond, Leonard E.	Edmonton
55	Dunn, Alex. C.	Edmonton
69	Derbyshire, James	Drumheller
84	Duggan, William H.	Beverly
91	Driscoll, Alfred	Edmonton
100	Dennis, Fred W.	Bow City
114	Davis, Alfred	Lethbridge

LIST OF NAMES of Persons Who Hold Mine Surveyors' Certificates
and who are Qualified to Prepare Plans Under The Mines Act... *Con.*

NO. CERT.	NAME	ADDRESS
33	Elliott, Edward P.	Pocahontas
94	Ellis, William	Champion
123	Evans, Daniel	Edmonton
15	Fraser, Norman	Edmonton
54	Foot, Robert G.	Coleman
57	Finnie, Oswald S.	Edmonton
76	Flint, William G.	Canmore
83	Fortner, Edward	Rocky Mountain House
121	Fraser, Alan T.	Edmonton
70	Green, Raoul	Blairmore
89	Gallon, Emile	Bellevue
110	Gray, David	Wayne
29	Hutchison, David	Hillcrest
34	Huntrods, Eustace S. F.	Taber
46	Holden, James O. E.	Drumheller
50	Hardie, William D. L.	Lethbridge
52	Hargreaves, James	Drumheller
56	Hamilton, James F.	Lethbridge
67	Henderson, Thos. R.	Toffield
68	Hutchison, William	Hillcrest
74	Hamilton, Robert	Redcliff
82	Horne, Thomas	Castor
85	Harrison, Stephen	Lethbridge
95	Hyde, Marcus L.	Evansburgh
117	Hamilton, William L.	Passburg
26	Jones, Samuel A.	Edson
32	Jones, David	Edmonton
47	Kellett, Walton	Lethbridge
96	Knight, Richard R.	Edmonton
122	Knight, Sidney	Edmonton
105	Kellock, George	Coleman
9	Livingstone, Robert	Lethbridge
44	Lavole, Germain A.	Frank
64	Lee, Robert J.	Elcan
77	Lyster, Horace M.	Bankhead
107	Leblanc, Emile	Taber
14	Morris, James J.	Canmore
17	Morris, Robert H.	Pocahontas
78	Milne, Morgan C.	Edmonton
92	Mills, Harry W.	Bankhead
93	Maxwell, William	Westville, N. S.
97	Millar, Andrew A.	Lovettville
98	Meldrum, William	Lethbridge
101	Moodie, Kenneth	Drumheller
106	Marshall, John W.	Evansburgh
6	McNeill, Walter F.	Calgary
35	McLeod, John A.	Edmonton
37	McLenhan, John A.	Dinant
41	Macaulay, Angus G.	Coleman
60	Macaulay, Donald A.	Drumheller
104	McCulloch, James	Drumheller
118	McDonald, Duncan	Hardieville
120	McVicar, Samuel	Beaver Mines
102	O'Donnell, Thomas	St. Albert
10	Pitcher, Norman C.	Edmonton
11	Parker, John L.	Canmore
24	Pickles, William	Edmonton
31	Puckett, Owen L.	Lovettville
63	Ponton, Gerald M.	Calgary
88	Piard, Marc	Bellevue
108	Powell, Albert E.	Edmonton
12	Reid, John C.	Lethbridge

LIST OF NAMES of Persons Who Hold Mine Surveyors' Certificates
and who are Qualified to Prepare Plant Under The Mines Act.—*Con.*

CERT. NO.	NAME	ADDRESS
13	Richards, James A.	Calgary
23	Robertson, John D.	Edmonton
43	Richards, Charles C.	Commerce
61	Robertson, John	Drumheller
62	Reid, Adam H.	Commerce
65	Robert, Louis P.	Blairmore
103	Raisbeck, Luke	Grassy Lake
2	Stockett, Lewis	Calgary
3	Smith, Frank B.	Edmonton
19	Stirling, John T.	Edmonton
25	Shaw, William	Blairmore
36	Scott, Andrew N.	Pocahontas
58	Shanks, John	Nordegg
59	Stevenson, William	Nordegg
66	Stevens, Leonard C.	Edmonton
86	Sutherland, Clyde C.	Edmonton
116	Stevenson, John.	Hardieville
16	Thornton, Norman M.	Edmonton
18	Thorne, Benj. L.	Calgary
115	Thomas, Joseph D.	Passburg
4	Wain, W. Holt	Canmore
5	Wilson, David G.	Bankhead
27	Whiteside, O. E. S.	Coleman
38	Williams, Arthur E.	Bellevue
48	Williams, Thomas B.	Canmore
53	Watson, Ronald H.	Mountain Park
71	Williams, William P.	Bellevue
87	Watters, John	Bankhead
90	Wilson, William R.	Fernie, B.C.
99	Wark, Samuel D.	Evansburgh
112	Wheeler, James S.	Calgary
28	Young, W. H.	Calgary

The Canmore Coal Company, Limited (Mine No. 2).

Authorized Capital: \$50,000.00.

President: James B. Neale.

Vice-President: Frederick E. Weyerhauser.

Directors: James B. Neale, Frederick E. Weyerhauser, Orrin H. Ingram, S. Brinckerhoff Thorne and Joseph G. Thorpe.

Secretary: Edmund M. Parker.

Treasurer: S. Brinckerhoff Thorne.

Operating Officer: Mont. B. Morrow.

Mine Manager: William Musgrove.

Overmen: J. S. Wright and James Clyne.

Examiners: Joseph Saudino, Roland Archer, Charles W. Fowers, Robert Kerr, Peter Ramsay, William Sihvon, John T. Musgrove and Adolph Besso.

Master Mechanic: Harry W. Evans.

Mine Surveyor: Thomas B. Williams.

Head Office: Canmore, Alberta.

Mine Office: Canmore, Alberta.

Location of Mine: Sec. 29, Tp. 24, Rge. 10, W. 5th M.

Area: 8,241 acres.

Method of Ventilation: Forcing fan.

The principal development has taken place in the Stewart seam which has been opened up by a crosscut tunnel driven from the Sedlock seam. The coal is sheared, before being blasted, by a Rand Radial post machine driven by compressed air, the result being that

a good grade of commercial coal is obtained. This seam is pitching at an inclination of 8 degrees and is opened up by means of jig roads driven direct to the pitch with rooms driven across the pitch.

A hoist driven by compressed air is placed on the gangway for the purpose of hoisting the empty cars up the jig road.

There has been no work done at the No. 1 Mine during the past year.

The three seams being operated are the Sedlock, 5 ft. in thickness; the Carey, 7 ft. in thickness, and the Stewart, 8 ft. in thickness.

Canadian Pacific Railway.

(Department of Natural Resources) Lethbridge.

President: Sir Thomas G. Shaughnessy.

Vice-President: George J. Bury.

Directors: R. B. Angus, A. R. Creelman, Hon. James Dunsinuir, F. S. Meighen, H. S. Holt, C. R. Hosmer, Robert Mackay, W. D. Mathews, D. McNicoll, A. M. Nanton, E. B. Osler, Sir Thomas G. Shaughnessy and Sir Thomas S. Skinner.

Secretary: W. R. Baker.

Treasurer: H. E. Suckling.

Manager: P. L. Naismith.

General Superintendent: Lewis Stockett.

Mine Manager: Robert Livingstone.

Number 3 Mine.

Overmen: J. C. Livingstone and A. Queen.

Examiners: H. Fairhurst, R. Scott, J. T. Parks.

Master Mechanic: John Scott.

Mine Surveyor: W. Kellett.

Location of Mine: Sec. 6, Tp. 9, Rge. 21, W. 4th M.

Area: Approximately 6,000 acres.

Method of Ventilation: Forcing fan.

Number 6 Mine.

Overmen: John C. Livingstone and John Stevenson.

Examiners: R. Clark, J. McGowan, D. Coutts, W. Goldie, S. Crabb, W. Crawford, R. Draper, R. Horne and J. Moore.

Master Mechanic: H. A. McMillan.

Mine Surveyor: W. Kellett.

Location of Mine: Sec. 18, Tp. 9, Rge. 21, W. 4th M.

Area: Approximately 10,000 acres.

Method of Ventilation: Forcing fan.

Head Office: Calgary, Alberta.

Mine Office: Lethbridge, Alberta.

This company is operating two mines, No. 3 and No. 6, the coal in each being about 4 ft. in thickness. The main haulage is done by means of the endless rope system with horses for gathering purposes. Each mine is ventilated by means of an electrically driven fan.

The fan at the No. 3 Mine produces 82,000 cubic feet of air per minute with an average water gauge of 3.5 ins., while the fan at the No. 6 Mine produces 165,000 cubic feet of air per minute with an average water gauge of 3.2 ins.

The No. 3 Mine is divided into five splits and is wet throughout. Open lights are used. Black powder is used for blasting in coal and 30 per cent. dynamite for rock work. The miners fire their own shots with sulphur squibs. All underground stables are lighted by electricity. A shaft 8 ft. by 8 ft. has been sunk during the past year

about half a mile north of the present pumping shaft for ventilation purposes.

The No. 6 Mine is divided into nine splits and is fairly damp throughout. Gas has been found in the working places on several occasions during the year.

Portable electric head lamps of the "Wico" type have been used throughout this mine for the last two years with very successful results. Electric lamps of the Ceag type are used by machine runners. The mine is examined before work is commenced by certificated examiners with the Wolf safety lamp.

William Daly. (Mine No. 8)

Overman: James Hetherington.

Mine Surveyor: Norman Fraser.

Mine Office: Clover Bar, Alberta.

Location of Mine: Sec. 7, Tp. 53, Rge. 23, W. 4th M.

Ventilation: Natural.

The coal seam, which is 6 ft. in thickness, is lying at a depth of 80 ft. from the surface. The mine, which is entered by a drift, has not been in operation for several months.

The Clover Bar Company, Limited.

Authorized Capital: \$500,000.00.

President: H. E. R. Rogers.

Vice-President: J. J. Millidge.

Directors: H. E. R. Rogers, J. J. Millidge, H. H. Robertson and A. C. Dunn.

Secretary: J. F. Hunter.

Treasurer: H. H. Robertson.

General Manager: J. F. Hunter.

Overman: George H. Bilson.

Engineer: G. A. Moulton.

Mine Surveyor: David Jones.

Head Office: Edmonton, Alberta.

Mine Office: Clover Bar, Alberta.

Location of Mine: Sec. 18, Tp. 53, Rge. 23, W. 4th M.

Area: 813 acres.

Method of Ventilation: Natural.

This mine is entered by means of a shaft 6 ft. by 12 ft., divided into two compartments and equipped with self-dumping cages. The coal seam is 7 ft. in thickness and lies at a depth of 85 ft. from the surface. Open lights are used throughout the mine.

White Star Coal Company, Limited. (Mine No. 29)

Authorized Capital: \$75,000.00.

President: James W. Blain.

Directors: James W. Blain, Jos. H. Morris, James M. Douglas, R. B.

Douglas, Robert Crockart, E. W. McKenzie, A. L. Brick, B. L. Abram.

Secretary-Treasurer: B. L. Abram.

Managing Director: James W. Blain.

Mine Manager: F. B. Smith.

Overman: Joseph G. Machin.

Mine Surveyor: F. B. Smith.

Head Office: Edmonton South, Alberta.

Mine Office: Ellerslie, Alberta.

Location of Mine: Sec. 25, Tp. 51, Rge. 25, W. 4th M.

Area: 640 acres.

Method of Ventilation: Natural.

This mine is entered by means of a slope and is only worked during the winter months. Open lights are used throughout the mine. The seam, which averages 5 ft. in thickness, is lying at a depth of 115 feet from the surface.

A. D. McPherson. (Mine No. 30)

Overman: Elijah Hargreaves.
 Mine Office: Black Diamond, Alberta.
 Location of Mine: Sec. 8, Tp. 20, Rge. 2, W. 5th M.
 Area: 2 acres.
 Method of Ventilation: Natural.

This mine is located about 14 miles west of Okotoks. The coal seam, which is 7 ft. in thickness and pitching at an angle of 85 degrees, is entered by means of a shaft. The old mine became flooded in June and a new shaft is being sunk about 1,500 feet north. The mine is operated on a small scale, the coal being sold mostly to settlers and well drillers in the district.

The Cardiff Collieries, Limited. (Mine No. 32)

Authorized Capital: \$700,000.00
 President: Andrew Kelly.
 Vice-President: H. H. Chown.
 Directors: H. H. Chown, J. C. Gage, J. M. de C. O'Grady, Andrew Kelly, J. H. Morris, E. A. James and G. H. Eaton.
 Secretary: A. Cooper.
 Treasurer: E. A. James.
 General Manager: G. H. Eaton.
 Mine Manager: David Jones.
 Overman: Alex. McGregor.
 Engineer: T. Castlik.
 Master Mechanic: M. J. Saunders.
 Mine Surveyor: L. E. Drummond.
 Head Office: Winnipeg, Manitoba.
 Mine Office: Cardiff, Alberta.
 Location of Mine: Sec. 25, Tp. 55, Rge. 25, W. 4th M.
 Area: 630 acres.
 Method of Ventilation: Forcing fan.

This mine is entered by means of a slope. The coal seam, which is 16 ft. in thickness, is lying at a depth of 30 ft. from the surface. Only 12 ft. of the seam is extracted. The main haulage roads are lighted by means of electricity; open lights are used throughout the mine.

The output is hauled up the slope by means of an endless rope.

J. H. Oliphant. (Mine No. 37)

Overman: J. H. Oliphant.
 Mine Surveyor: Robert Hamilton.
 Mine Office: Medicine Hat, Alberta.
 Location of Mine: Sec. 5, Tp. 13, Rge. 6, W. 4th M.
 Area: 1,280 acres.
 Method of Ventilation: Natural.

This mine is located about seven miles west of Medicine Hat, on the south side of the river, and was formerly operated by H. and W. Ansley. The seam, which is 7 ft. in thickness, lies at a depth of 250 ft. from the surface.

Hillcrest Collieries, Limited. (Mine No. 40)

Authorized Capital: \$3,000,000.00.
 President: C. B. Gordon.
 Vice-President: C. Meredith.
 Directors: Sir Herbert Holt, W. D. Matthews, J. M. Mackie, G. H. Duggan, M. P. Davis, C. P. Hill and C. R. Hamilton.
 Secretary-Treasurer: Frank J. Smith.
 Managing Director: J. M. Mackie.
 General Manager: Robert G. Drinnan.
 Mine Manager: Robert T. Stewart.
 Overman: Sam Richards.
 Examiners: John Ironmonger, Walter Rose, William Adlam, D. Briscoe, Robert Hays, J. Mackie and T. Harrison.
 Master Mechanic: Thomas J. Hargreaves.
 Mine Surveyor: William Hutchison.
 Head Office: Montreal, Que.
 Mine Office: Hillcrest, Alberta.
 Location of Mine: Sec. 18, Tp. 7, Rge. 3, W. 5th M.
 Area: 3,760 acres.
 Method of Ventilation: Forcing fan.

The coal seam at this mine is 14 ft. in thickness and varies in inclination from 20 to 50 degrees. The mine is now being developed on the panel system with from 10 to 15 rooms in each panel and a barrier of coal left between each section.

In order to obtain better ventilation in the inside portions of the mine, the double entry system has been replaced by the triple entry system.

The mine is ventilated by means of an electrically driven Si-rocco fan producing 100,000 cubic ft. of air per minute with an average water gauge of 1.8 ins. The average relative humidity of the mine air is 99 per cent.

As experiments have shown that the coaldust in this mine is of a dangerous nature and as it is impossible to keep it from accumulating, in what is considered dangerous quantities in the old workings in the abandoned portion of the mine, steps have been taken for the erection of incombustible dust barriers in all roadways leading between abandoned and working portions. Fourteen barriers of this nature have been erected, the dust used being obtained from the boiler flues which contains a little less than 2 per cent. of combustible matter. Safety lamps of the Wolf type are used throughout the mine, although the management have at present under consideration the question of using portable electric head lamps. A.1 Monobel is used for blasting in the coal. Shot-firing is only permitted in certain sections of the mine.

The Humberstone Coal Company. (Mine No. 43)

Managing Director: Beata Humberstone.
 General Manager: E. E. Brewer.
 Mine Manager: Edwin Sparrow.
 Overman: Edwin Sparrow.
 Examiners: John Duggan and Gomer Rees.
 Master Mechanic: H. R. Johnston.
 Mine Surveyor: Wm. H. Duggan.
 Head Office: Box 200, Beverly, Alberta.
 Mine Office: Beverly, Alberta.
 Location of Mine: Sec. 7, Tp. 53, Rge. 23, W. 4th M.
 Area: 400 acres.
 Method of Ventilation: Natural.

Two seams are being operated on this property. No. 1 seam is operated by means of a shaft 150 ft. deep.

The surface plant was destroyed by fire during the month of June, shortly after the mine workings had been flooded by an inrush of water. A new plant is now in course of erection, consisting of power house of fireproof construction which contains two horizontal tubular boilers with a total capacity of 250 h.p.; one two-stage Sullivan air compressor and two hoisting engines of 40 and 75 h.p., respectively. A tippie equipped with shaker screens has also been erected and a fan of the Waddle type installed.

The No. 2 mine which is entered by means of a drift, has a seam 7 ft. in thickness. The output from this mine is hauled to the tippie by means of main and tail rope haulage. Open lights are used throughout both mines.

Campbell & Southgate. (Mine No. 46)

Overman: K. S. Campbell.

Mine Surveyor: Norman Fraser.

Mine Office: Beverly, Alberta.

Location of Mine: River Lot 42, Tp. 53, Rge. 25, W. 4th M.

Method of Ventilation: Natural.

The seam at this mine is 5 ft. 4 ins. in thickness. Open lights are used, no gas having been found.

Franco-Canadian Collieries, Limited. (Mine No. 48)

Authorized Capital: \$1,300,000.00.

President: Viscount P. de Chezelles.

Directors: M. G. Berthier, A. Ollier, L. Motte, J. Saint-Girons, R. Perry, H. Luthard, H. C. Moore and J. M. Windsor.

Secretary-Treasurer: C. J. Tompkins.

Managing Director: G. Cahen.

Business Manager: C. J. Tompkins.

Mine Manager: John R. MacDonald.

Overmen: Thomas Davies and David Muir.

Examiners: Fred Rayner, James Reid, David Crawford, John G. Prentice and George Coupland.

Master Mechanic: Robert Niven.

Mine Surveyor: G. A. Lavoie.

Head Office: Frank, Alberta.

Mine Office: Frank, Alberta.

Location of Old Mine: Sec. 30, Tp. 7, Rge. 3, W. 5th M.

Location of Shaft Mine: Sec. 36, Tp. 7, Rge. 4, W. 5th M.

Area: 2,680 acres.

Method of Ventilation: Forcing and exhausting fans.

Two mines are being operated on this property, one of which is entered by a drift and the other by a shaft, the seams being 14 and 8 ft. in thickness, respectively, the inclination varying from 50 to 75 degrees.

Both mines are worked on the angle chute system, each chute being driven at an angle of about 25 degrees.

Safety lamps of the Wolf type are used exclusively in both mines. Monobel No. 1 is being used for blasting in the coal in the main and counter entries in the shaft mine. No explosives whatever are used in the coal in the drift mine.

In the drift mine, two slopes have been driven from the south entry and connected to the main tunnel at a point 140 ft. from the entrance. Two slopes have also been driven from the level of the

shaft bottom to the surface. It is intended that these slopes will be used for hoisting coal instead of the shaft which is at present being used for this purpose.

Edmonton Standard Coal Company, Limited. (Mine No. 49)

Authorized Capital: \$200,000.00 Preferred, \$300,000.00 Common Stock.
President: H. Waddington.
Vice-President: W. G. Ellis.
Directors: H. Waddington, W. G. Ellis.
Secretary-Treasurer: W. Munns.
Mine Manager: D. Evans.
Engineer: J. E. Barley.
Mine Surveyor: D. Evans.
Head Office: Toronto, Ont.
Mine Office: 707 McLeod Building, Edmonton, Alberta.
Location of Mine: R. L. 26, Tp. 53, Rge. 24, W. 4th M.
Area: 125 acres.
Method of Ventilation: Natural.

The mine formerly operated by this Company was flooded when the Saskatchewan River rose above the level of the entrance to the shaft in June, 1915.

This mine has now been abandoned and the unworked portion of the property is being reached by means of a slope driven at an inclination of 30 degrees. The slope, which is 6 ft. high by 6 ft. wide, reached the coal at a distance of 250 ft.

James Ashcroft. (Mine No. 54)

Mine Manager: Stephen Harrison.
Mine Surveyor: C. C. Richards.
Mine Office: Lethbridge, Alberta.
Location of Mine: Sec. 35, Tp. 8, Rge. 22, W. 4th M.
Area: 195 acres.
Method of Ventilation: Furnace.

The seam at this mine is 4 ft. 6 ins. in thickness and lies at a depth of 200 ft. from the surface; it is worked on the room and pillar method.

John Rollingson. (Mine No. 55)

Overman: John Rollingson.
Location of Mine: Sec. 17, Tp. 7, Rge. 21, W. 4th M.
Area: 1,300 acres.
Method of Ventilation: Natural.

The seam at this mine is 3 ft. 4 ins. in thickness and is only worked during the winter months. No gas has been found and therefore open lights are used.

Edward Oliver. (Mine No. 56)

Overman: Edward Oliver.
Location of Mine: Sec. 7, Tp. 7, Rge. 21, W. 4th M.
Area: 52 acres.
Method of Ventilation: Natural.

This mine was formerly operated by Thomas H. Baker. The seam is 4 ft. in thickness and is worked on a small scale.

Marlow & Cartwright. (Mine No. 59)

Overman: Charles E. Cartwright.
 Mine Surveyor: G. A. Lavoie.
 Mine Office: Lundbreck, Alberta.
 Location of Mine: Sec. 26, Tp. 7, Rge. 2, W. 5th M.
 Area: 320 acres.
 Method of Ventilation: Natural.

The seam at this mine is 10 ft. in thickness and is pitching at an inclination of about 70 degrees. The mine is damp throughout and open lights are used. The coal is hauled from the mine to the tipple by means of a small gasoline engine.

Keith & Fulton. (Mine No. 69)

Overman: Samuel Finlay.
 Mine Surveyor: Norman Fraser.
 Mine Office: Clover Bar, Alberta.
 Location of Mine: Sec. 7, Tp. 53, Rge. 23, W. 4th M.
 Area: 40 acres.
 Method of Ventilation: Natural.

This mine is entered by a drift on the banks of the river and is operated on a small scale. Open lights are used, no gas having been found.

*Canadian Pacific Railway. (Mine No. 80)**(Department of Natural Resources) Bankhead.*

President, Sir Thomas G. Shaughnessy.
 Vice-President: George J. Bury.
 Directors: R. B. Angus, A. R. Creelman, Hon. James Dunsmuir, W. D. Mathews, D. McNichol, F. S. Meighen, H. S. Holt, C. R. Hosmer, Robert McKay, A. M. Nanton, E. B. Osler, Sir Thomas Shaughnessy and Sir Thomas S. Skinner.
 Secretary: W. R. Baker.
 Treasurer: H. E. Suckling.
 Manager: P. L. Naismith.
 General Superintendent: Lewis Stockett.
 Superintendent: D. G. Wilson.
 Mine Manager: John Watters.
 Overman: Thomas Bastian.
 Examiners: John Littler, Robert Littler, Alex. Watters, Wm. Hartley.
 Master Mechanic: D. H. Smith.
 Mine Surveyor: A. G. MacAulay.
 Head Office: Calgary, Alberta.
 Mine Office: Bankhead, Alberta.
 Location of Mine: Secs. 19/30, Tp. 26, Rge. 11, W. 5th M.
 Area: 8,480 acres.
 Method of Ventilation: Reversible fan.

Four seams are being operated at this mine, No. "O", 2 ft. 6 ins.; No. "O-4", 3 ft. 6 ins.; No. 2, 10 ft., and No. 3, 8 ft. in thickness, respectively. A gangway has been driven from the surface on No. "O" seam at "B" level.

The fan at "B" level is being driven by a 100 h.p. 60 cycle induction motor which has been installed during the past year.

Regal Collieries, Limited. (Mine No. 82)

Authorized Capital: \$500,000.00.
 President: W. A. Aubin.
 Vice-President: E. Aubin.
 Directors: W. A. Aubin, C. Frost, E. Aubin.
 Secretary-Treasurer: W. E. Bullock.
 Mine Manager: John Marsh.
 Mine Surveyor: E. S. F. Huntrods.
 Head Office: Taber, Alberta.
 Mine Office: Taber, Alberta.
 Location of Mine: Sec. 8, Tp. 10, Rge. 16, W. 4th M.
 Area: 640 acres.
 Method of Ventilation: Exhausting fan.

The seam at this mine is 4 ft. in thickness and is mined by compressed air coal-cutting machines. The output is hauled to Taber by teams where it is loaded into railway cars. Open lights are used throughout.

West Canadian Collieries, Limited. (Mine No. 87)

(Bellevue)

Authorized Capital: \$5,600,000.00.
 President: A. Wicart.
 Vice-President: E. Ory.
 Directors: E. Decoster, E. Carlier, Baron de la Grange O'Tard, J. Cavrois, J. R. Tennant, E. Rasson, H. M. Kersey.
 Secretary-Treasurer: A. Ghesquier.
 General Manager: J. Charbonnier.
 Mine Manager: W. P. Williams.
 Overmen: D. Davidson, E. Roberts.
 Examiners: M. Joyce, Ed. Roberts, J. Boldon, M. Bovio, E. Coupland, H. S. McDonald, J. Radford, H. Smith, C. Burrows, J. Jackson, D. Hutton, D. Reese, W. Parks.
 Master Mechanic: E. Large.
 Mine Surveyor: A. E. Williams.
 Head Office: London, E.C., England.
 Mine Office: Bellevue, Alberta.
 Location of Mine: Sec. 20, Tp. 7, Rge. 3, W. 5th M.
 Area: 1,800 acres.
 Method of Ventilation: Exhausting fan.

The coal seam averages 14 ft. in thickness and varies in inclination from 30 to 45 degrees. Where the inclination is not more than 30 degrees, the seam is worked direct to the pitch and in other portions of the mine the angle chute system is adopted. Incombustible dust barriers have been erected in all roadways leading from the abandoned to the working portions of the mine. The barriers are composed of shelves placed overhead and loaded with dust from the boiler flues.

Dust barriers have also been erected in all roadways leading from the pillar sections above No. 2 level to other portions of the mine. As a large amount of coaldust was accumulating in this mine, and as it was found impossible to take care of this coaldust satisfactorily, the management endeavored to have this portion of the mine operated without the use of explosives; the workmen, however, refused to do this with the result that work was stopped in this section. Safety lamps of the Wolf type are used throughout, although some experiments are being made with portable electric hand lamps. Monobel No. 1 is used for shotfiring in the coal.

International Coal & Coke Company, Limited. (Mine No. 88)

Authorized Capital: \$3,000,000.00.
 President: A. C. Flumerfelt.
 Vice-President: Hugh Davidson.
 Directors: A. C. Flumerfelt, H. Davidson, C. E. McBroom, B. H. Kiser,
 W. G. Graves.
 Secretary: W. G. Graves.
 Treasurer: John McKeagan.
 Managing Director: R. W. Riddell.
 General Manager: O. E. S. Whiteside.
 Mine Manager: W. A. Davidson.
 Overman: David Davies.
 Examiners: Malcolm Morrison, J. Davies, John Cox.
 Master Mechanic: James Scott.
 Mine Surveyor: W. A. Davidson.
 Head Office: Spokane, Wash., U. S. A.
 Mine Office: Coleman, Alberta.
 Location of Mine: Sec. 8, Tp. 8, Rge. 4, W. 5th M.
 Area: 4,410 acres.
 Method of Ventilation: Exhausting fan.

Two seams are being operated at this mine, one varying in thickness from 12 to 15 ft., and the other about 6 ft., lying at an inclination of about 33 degrees. This mine is opened out on the panel system with 10 rooms in each panel. It is ventilated by means of a Capell fan, electrically driven, producing about 45,000 cubic ft. of air per minute with an average water gauge of 2.3 ins. Incombustible dust barriers have also been erected in this mine as the coaldust appears to be of an explosive nature. Safety lamps of the Wolf type are used throughout the mine and no shotfiring whatever is done in the coal.

Byers Brothers. (Mine No. 90)

Overman: David Morris.
 Mine Surveyor: Norman Fraser.
 Mine Office: Clover Bar, Alberta.
 Location of Mine: Sec. 8, Tp. 53, Rge. 23, W. 4th M.
 Method of Ventilation: Natural.

The seam at this mine is 6 ft. in thickness and is lying at a depth of 80 ft. from the surface. Open lights are used throughout the mine.

R. P. Ottewell. (Mine No. 91)

Overman: W. J. Ottewell.
 Mine Surveyor: A. Driscoll.
 Mine Office: Clover Bar, Alberta.
 Location of Mine: Sec. 17, Tp. 53, Rge. 23, W. 4th M.
 Method of Ventilation: Natural.

The seam at this mine is 6 ft. in thickness and is entered by means of a drift in the bank of the river, the output being hauled from the mine to the tippie by means of an incline on the surface. Open lights are used throughout.

The Great West Coal Company, Limited. (Mine No. 99)

Authorized Capital: \$150,000.00.
 President: James C. Dunn.
 Directors: James C. Dunn, Wm. S. Cupples and Alex C. Dunn.
 Secretary-Treasurer: Thomas S. Campbell.
 Mine Manager: Alex. C. Dunn.
 Overmen: John Russell, Thomas Strickland.
 Master Mechanic: Antoine Beaumonte.

Head Office: 108 Rice Street, Edmonton, Alberta.

Mine Office: Clover Bar, Alberta.

Location of Mine: Secs. 5, 6, 7, and 8, Tp. 53, Rge. 23, W. 4th M.

Area: 1,118 acres.

Method of Ventilation: Exhausting fan.

Two mines, one entered by a shaft and the other by a drift, were formerly operated by this company, but during the past year the shaft mine was abandoned and the machinery removed therefrom to the drift mine. Two return tubular boilers, one 16 h.p. steam engine and 25 k.w. electric generator have been installed during the year, also a fan capable of handling 50,000 cubic ft. of air per minute. The tippie which is connected to the mine by means of a double tracked incline is equipped with screens giving three sizes of coal. Open lights are used throughout the mine.

Sturgeon Consolidated Collieries, Limited. (Mine No. 101)

Authorized Capital: \$200,000.00.

President: David M. Duggan.

Directors: David M. Duggan, David Jones, Dan Evans, P. H. Bishop, William Munn.

Secretary: P. H. Bishop.

Managing Director: D. M. Duggan.

Mine Manager: David Jones.

Overman: David Astley.

Mine Surveyor: David Jones.

Head Office: 708 McLeod Building, Edmonton.

Mine Office: Namao, Alberta.

Location of Mine: Sec. 9, Tp. 55, Rge. 24, W. 4th M.

Area: 160 acres.

Method of Ventilation: Forcing fan.

This mine is entered by a shaft 7 ft. by 7 ft., equipped with self-dumping cages. The seam, which is 5 ft. 9 ins. in thickness, is lying at a depth of 50 ft. from the surface. This mine was formerly operated by the Cambrian Collieries, Ltd.

The Canada-West Coal Company, Limited. (Mine No. 105)

Authorized Capital: \$2,400,000.00.

President: O. A. Robertson.

Vice-President: J. R. Howard.

Directors: O. A. Robertson, F. E. Kenaston, W. L. Ball, J. S. Hough, S. H. Bowman, Jr.

Secretary: W. L. Ball.

Treasurer: F. E. Kenaston.

General Manager: J. R. Howard.

Mine Manager: Moses Johnson.

Overman: William Jordan.

Examiners: H. Evans, D. D. Jones, E. Marsh.

Master Mechanic: William McMahon.

Mine Surveyor: E. S. F. Huntrods.

Head Office: Winnipeg, Manitoba.

Mine Office: Taber, Alberta.

Location of Mine: Sec. 31, Tp. 9, Rge. 16, W. 4th M.

Area: 11,200 acres.

Method of Ventilation: Forcing fan.

The coal seam at this mine is 3 ft. 8 ins. in thickness and the coal is hauled out of the mine by means of a slope operated by an endless chain, electric trolley locomotives being used in the main entries and horses for gathering purposes.

The mine is ventilated by means of a Capell fan which is forcing

but reversible; this fan is belt-driven by means of a steam engine and produces about 32,000 cubic ft. of air per minute with an average water gauge of 1 in. The mine is divided into three splits. An auxiliary fan of the Sturtevant type, electrically driven and capable of producing 23,000 cubic feet of air per minute, has been installed underground. The mine is fairly damp throughout and open lights are used as no gas has been found.

The White Ash Collieries, Limited. (Mine No. 106)

Authorized Capital: \$300,000.00.
President: W. E. Bullock.
Vice-President: Roy Bullock.
Directors: W. E. Bullock, Roy Bullock and Clara Bullock.
Secretary-Treasurer: Clara Bullock.
General Manager: W. E. Bullock.
Mine Manager: John Marsh.
Master Mechanic: S. Turner.
Head Office: Taber, Alberta.
Mine Office: Taber, Alberta.
Location of Mine: Sec. 19, Tp. 10, Rge. 16, W. 4th M.
Area: 40 acres.
Method of Ventilation: Natural.

The seam at this mine is 4 ft. in thickness and is worked on the room and pillar method. Open lights are used throughout, no gas having been found. The only work done at this mine during the past year has been the extraction of pillars.

Albert Trentham. (Mine No. 113)

Overman: Albert Trentham.
Mine Surveyor: James Crowder.
Mine Office: Three Hills, Alberta.
Location of Mine: Sec. 26, Tp. 31, Rge. 24, W. 4th M.
Area: 40 acres.
Method of Ventilation: Natural.

The seam, which is 4 ft. 2 ins. in thickness, lies at a depth of 70 ft. from the surface. There have been no improvements made during the year.

Dodds, Currie & Hoding. (Mine No. 115)

Overman: Fred Kirkby.
Mine Surveyor: Norman Fraser.
Mine Office: Carbon, Alberta.
Location of Mine: Sec. 12, Tp. 29, Rge. 23, W. 4th M.
Area: 180 acres.
Method of Ventilation: Natural.

This mine is situated about two miles east of Carbon and is opened at the foot of a bank in a coulee by means of a short slope on a 14 per cent. grade. There is about 100 ft. of cover over the coal.

George Watson. (Mine No. 116)

Overman: George Watson.
Mine Surveyor: James Crowder.
Mine Office: Three Hills, Alberta.
Location of Mine: Sec. 22, Tp. 31, Rge. 24, W. 4th M.

Area: 20 acres.
Method of Ventilation: Natural.

This mine is situated four miles west of Three Hills. The seam, which is 3 ft. 6 ins. in thickness, lies at a depth of 50 ft. from the surface and is entered by means of a slope 50 ft. long on a 10 per cent. grade.

William Kummer. (Mine No. 120)

Overman: C. H. Schnelle.
Mine Surveyor: Norman Fraser.
Mine Office: Long View, Alberta.
Location of Mine: Sec. 8, Tp. 18, Rge. 2, W. 5th M.
Area: 160 acres.
Method of Ventilation: Natural.

This mine is situated about 25 miles west of High River. The seam, which is pitching at an inclination of 80 degrees, is 7 ft. in thickness.

Leitch Collieries Limited. (Mine No. 126)

Authorized Capital: \$1,000,000.00.
President: Malcolm Leitch.
Vice-President: George O. Aulsebrook.
Directors: M. Leitch, A. K. Leitch, J. G. Turriff, M.P., A. W. Fraser, J. D. McBride, F. C. Baker, George O. Aulsebrook, D. E. Williams, W. G. McMahon.
General Manager: W. L. Hamilton.
Mine Manager: J. D. Thomas.
Head Office: Winnipeg, Manitoba.
Mine Office: Passburg, Alberta.
Location of Mine: Sec. 15, Tp. 7, Rge. 3, W. 5th M.
Area: Approximately 12,500 acres.
Method of Ventilation: Forcing fan.

This mine was abandoned towards the latter part of March owing to lack of market for the output. Two seams were operated, 6 ft. 6 ins. and 5 ft. in thickness, respectively, and lying at an inclination of about 60 degrees. The mine was opened out on the angle chute system.

The Alberta Coal Mining Company, Limited. (Mine No. 129)

Authorized Capital: \$250,000.00.
President: James L. Bell.
Vice-President: W. L. Carter.
Directors: James L. Bell, W. L. Carter and Geo. S. Montgomery.
Secretary-Treasurer: George S. Montgomery.
General Manager: E. T. Bishop.
Mine Manager: David Jones.
Overman: Gus Oestheid.
Mine Surveyor: David Jones.
Head Office: Edmonton, Alberta.
Mine Office: Cardiff, Alberta.
Location of Mine: Sec. 23, Tp. 55, Rge. 25, W. 4th M.
Area: 320 acres.
Method of Ventilation: Natural.

This mine is entered by means of a slope and the seam, which is lying at a depth of 40 ft. from the surface, is 12 ft. in thickness, only 9 ft. of which is being extracted.

Ensign Coal Mining Company. (Mine No. 131)

Location of Mine: Sec. 4, Tp. 10, Rge. 17, W. 4th M.

Area: 40 acres.

Method of Ventilation: Natural.

The seam is 3 ft. in thickness and is worked on the room and pillar system. Open lights are used throughout the mine. This mine was formerly operated by John Doram.

Canadian Pacific Railway Company. (Mine No. 132)

(Taber)

Overman: William Wallwork.

Mine Surveyor: W. Kellett.

Location of Mine: Sec. 7, Tp. 10, Rge. 16, W. 4th M.

Area: 20 acres.

Method of Ventilation: Natural.

The seam at this mine is 3 ft. 6 ins. in thickness and is operated entirely for the purpose of supplying fuel for the pumping station at Taber.

Maple Leaf Coal Company. (Mine No. 133)

Authorized Capital: \$500,000.00.

President: D. M. Drumheller.

Vice-President: A. Kuhn.

Directors: A. Coolidge, M. Oppenheimer, C. P. Lund.

Secretary-Treasurer: Charles P. Lund.

General Manager: James Finlay.

Mine Manager: James McCulloch.

Examiners: John McGladrie, William Park.

Master Mechanic: George Hope.

Head Office: Spokane, Wash., U. S. A.

Mine Office: Bellevue, Alberta.

Location of Mine: Sec. 21, Tp. 7, Rge. 3, W. 5th M.

Area: 640 acres.

Method of Ventilation: Forcing fan.

This mine was closed down at the end of March owing to slackness of trade. The seam, which is 8 ft. in thickness, is pitching at an inclination of 25 degrees.

Elias Kyllingstad. (Mine No. 135)

Overman: Elias Kyllingstad.

Location of Mine: Sec. 36, Tp. 14, Rge. 22, W. 4th M.

Area: 40 acres.

Method of Ventilation: Natural.

This mine is situated about 8 miles east of Carmangay. The seam, which is 2 ft. 10 ins. in thickness, is lying at a depth of 150 ft. from the surface.

Henry Theriault. (Mine No. 136)

Overman: Henry Theriault.

Mine Surveyor: Norman Fraser.

Mine Office: Long Coulee, Alberta.

Location of Mine: Sec. 8, Tp. 15, Rge. 22, W. 4th M.

Area: 640 acres.

Method of Ventilation: Natural.

This mine is situated in a coulee about eight miles east of Champion. The seam, which is 2 ft. 6 ins. in thickness, has a cover over it of about 80 ft.

Isaac Bennett. (Mine No. 137)

Overman: William Southern.
 Mine Surveyor: Norman Fraser.
 Mine Office: Armada, Alberta.
 Location of Mine: Sec. 4, Tp. 16, Rge. 21, W. 4th M.
 Area: 40 acres.
 Method of Ventilation: Natural.

This mine is located in Snake Valley, about 29 miles northeast of Champion, and is entered by means of a drift in the side of the bank. The seam is 2 ft. in thickness and is lying at a depth of 100 ft. from the surface.

Western Coals Limited. (Mine No. 148)

Location of Mine: River Lot 31, Tp. 53, Rge. 24, W. 4th M.
 Area: 130 acres.
 Method of Ventilation: Forcing fan.

This mine which was entered by a shaft, was abandoned when the Saskatchewan River rose above the level of the entrance to the shaft, with the result that the workings were flooded.

J. J. McDevitt. (Mine No. 149)

Overman: J. J. McDevitt.
 Mine Surveyor: C. C. Sutherland.
 Location of Mine: Sec. 24, Tp. 50, Rge. 19, W. 4th M.
 Method of Ventilation: Natural.

This property is operated by means of a shaft. The seam of coal, which is 7 ft. in thickness, is lying at a depth of 14 ft. from the surface. A portion of the property is being worked by the stripping process.

J. W. Brown. (Mine No. 151)

Overman: A. Francis.
 Mine Surveyor: Norman Fraser.
 Mine Office: Reid Hill, Alberta.
 Location of Mine: Sec. 24, Tp. 16, Rge. 23, W. 4th M.
 Method of Ventilation: Natural.

This mine is located in a coulee, about 15 miles northeast of Champion, and is entered by means of a drift. The seam of coal, which is 2 ft. 2 ins. in thickness, is overlaid with 8 inches of clay, above which is a sandstone roof.

Burmis Coal Company. (Mine No. 153)

Mine Manager: Cory Weatherbee.
 Master Mechanic: S. McDonald.
 Mine Surveyor: R. G. Foot.
 Location of Mine: Sec. 14, Tp. 7, Rge. 3, W. 5th M.
 Area: 482 acres.
 Method of Ventilation: Forcing fan.

The thickness of the seam at this mine is 4 ft. 6 ins.; which is pitching at an inclination of 33 degrees. During the summer months the mine is ventilated by an electrically driven fan and during the winter months by natural ventilation.

The haulage is done by means of a gasoline locomotive which operates in the intake airway on the main entry. Safety lamps of the Wolf type are used throughout the mine.

The Dawson Coal Company, Limited. (Mine No. 155)

Authorized Capital: \$30,000.00
 President: Richard Secord.
 Vice-President: J. Henderson.
 Directors: R. Secord, J. Henderson and H. J. Dawson.
 Secretary-Treasurer: Charles A. Hyndman.
 Overman: Levi Parker.
 Examiner: Thomas Coxon.
 Head Office: 6 McDougal Court, Edmonton, Alta.
 Location of Mine: River Lot 25, Edmonton.
 Area: 160 acres.
 Method of Ventilation: Exhausting fan.

The seam at this mine is 5 ft. 3 ins. in thickness and lies at a depth of 114 ft. from the surface. The mine is entered by means of a shaft. Open lights are used throughout and no improvements of any importance have been made during the year.

William Jaynes. (Mine No. 162)

Overman: William Jaynes.
 Mine Office: Magrath, Alberta.
 Location of Mine: Secs. 1 and 2, Tp. 7, Rge. 22, W. 4th M.
 Area: 203 acres.
 Method of Ventilation: Natural.

The seam at this mine is about 3 ft. in thickness and lies at a depth of about 65 ft. from the surface. The mine is damp throughout.

Redcliff Brick & Coal Company, Limited. (Mine No. 165)

Authorized Capital: \$900,000.00.
 President: C. H. Kohler.
 Vice-President: J. H. Peterson.
 Directors: V. W. Bayliss, E. Hoidale, J. H. Peterson, C. H. Wagner,
 H. M. Owen, A. B. Cutts, Geo. H. Christine, J. S. McLean, C. H.
 Kohler, E. H. Tillhom, H. N. Leighton.
 Secretary: V. W. Bayliss.
 Treasurer: Einar Hoidale.
 Mine Surveyor: Robert Hamilton.
 Master Mechanic: A. Shimmin.
 Mine Surveyor: Robert Hamilton.
 Head Office: Redcliff, Alberta.
 Mine Office: Redcliff, Alberta.
 Location of Mine: Sec. 5, Tp. 13, Rge. 6, W. 4th M.
 Method of Ventilation: Natural.

This mine is located at Redcliff and is entered by means of a drift driven in at the foot of a hill, the coal being hauled up to the prairie-level over a surface incline by a steam hoist. This mine is only operated during the winter months. The seam is 4 ft. 10 ins. in thickness.

John P. Dweak. (Mine No. 166)

Overman: John P. Dweak.
Mine Surveyor: Norman Fraser.
Mine Office: Alix, Alberta.
Location of Mine: Sec. 24, Tp. 38, Rge. 23, W. 4th M.
Method of Ventilation: Natural.

This mine is located about eight miles south of Alix and is entered by means of a drift. The seam being worked is 4 ft. in thickness.

Ben Nevis Collieries. (Mine No. 167)

General Manager: G. F. Adams.
Overman: Arthur Lewis.
Mine Surveyor: Norman Fraser.
Mine Office: Nevis, Alberta.
Location of Mine: Sec. 11, Tp. 29, Rge. 22, W. 4th M.
Method of Ventilation: Natural.

This mine is located $1\frac{1}{2}$ miles west of Nevis, on the Lacombe branch of the Canadian Pacific Railway, and was formerly operated by R. W. K. Cousins. The seam, which is 4 ft. in thickness, lies at a depth of 120 ft. from the surface. The coal is brought out from the mine by way of a drift after which it is hoisted to the prairie level by means of an incline.

John Russell. (Mine No. 167)

Location of Mine: Sec. 13, Tp. 26, Rge. 5, W. 5th M.
Area: 4,800 acres.
Method of Ventilation: Forcing fan.

The seam at this mine is 6 ft. in thickness and is pitching at an inclination of 20 degrees. The mine was abandoned in July.

The Rock Springs Coal and Brick Company, Limited. (Mine No. 170)

Authorized Capital: \$500,000.00.
President: B. K. Bullock.
Vice-President: Mrs. A. L. Bullock.
Directors: B. K. Bullock, C. C. Cook and Mrs. A. L. Bullock.
Secretary-Treasurer: Mrs. A. L. Bullock.
Mine Manager: Robert J. Lee.
Examiner: William Hynd.
Master Mechanic: Charles Sheritt.
Mine Surveyor: Robert J. Lee.
Head Office: Taber, Alberta.
Mine Office: Elcan, Alberta.
Location of Mine: Sec. 3, Tp. 10, Rge. 17, W. 4th M.
Area: 480 acres.
Method of Ventilation: Reversible fan.

The seam of coal at this mine is 3 ft. in thickness and lies at a depth of 70 ft. from the surface. The output is handled by means of an endless rope haulage system operated by a 20 h.p. engine.

The mine is ventilated by a Sturtevant fan driven by a steam engine and is capable of producing 30,000 cubic ft. of air per minute with an average water gauge of $\frac{3}{4}$ ins. During the year a new tippie equipped with a Duggan shaker screen, capable of handling

100 tons per hour, has been installed. A new airshaft 35 ft. deep has also been sunk.

Canadian Coal & Coke Company, Limited. (Mine No. 174)

(Coalhurst)

Authorized Capital: \$15,000,000.00.
 President: H. A. Lovett.
 Vice-President: Hon. Robert MacKay.
 Directors: Hon. N. Curry, H. A. Lovett, K.C., Hon. W. B. Ross, Hon. R. MacKay, J. W. MacConnell, R. M. Ballantyne, O. W. Donner, A. H. Cook, K.C., J. T. Ross, H. B. Robinson and T. H. Saunders.
 Secretary: P. F. Brown.
 Treasurer: Samuel T. Mains.
 Managing Director: H. A. Lovett, K.C.
 Mine Manager: J. B. de Hart.
 Overman: John D. Keith.
 Examiners: Wm. MacDonald, James Hill, Hugh Evans, Peter Melling, Peter Hutchinson, Robert Heap, John Ferguson, Isaac Whitefield, J. A. MacLeod.
 Chief Engineer: N. C. Pitcher.
 Master Mechanic: Robert Brown.
 Mine Surveyor: J. A. MacLeod.
 Head Office: 1021 Transportation Building, Montreal, Que.
 Mine Office: Coalhurst, Alberta.
 Location of Mine: Sec. 21, Tp. 9, Rge. 22, W. 4th M.
 Area: 9,360 acres.
 Method of Ventilation: Forcing fan.

The coal seam at this mine is 4 ft. 4 ins. in thickness, and an attempt has been made to operate it on the double room system with a considerable amount of success. These double rooms are 30 ft. in width and have cogs built in the centre for the purpose of supporting the roof. The coal is undercut by means of compressed air cutting machines. The output is brought to the shaft bottom by means of endless rope and horse haulage. The mine is divided into six splits and is fairly damp. Safety lamps of the Wolf type are used throughout the mine and arrangements are being made to supply the drivers employed underground with portable electric lamps of the Edison type.

Twin City Coal Company, Limited. (Mine No. 177)

Authorized Capital: \$600,000.00.
 President: R. L. McIntyre.
 Directors: R. L. McIntyre, J. A. Morden, Oliver Baird, James M. Sinclair, John Mackrell, H. C. Anderson and F. W. Johnston.
 Secretary-Treasurer: James M. Sinclair.
 General Manager: H. C. Anderson.
 Mine Manager: Leonard C. Stevens.
 Overman: Leonard C. Stevens.
 Examiners: R. Rawlinson, George Foster, A. C. Brovey.
 Master Mechanic: J. A. Clark.
 Mine Surveyor: Leonard C. Stevens.
 Head Office: Toronto, Ontario.
 Mine Office: Edmonton South, Alberta.
 Location of Mine: River Lot 17, City of Edmonton.
 Area: 380 acres.
 Method of Ventilation: Forcing fan.

This mine is entered by means of a shaft 165 ft. in depth and the coal seam is 5 ft. in thickness. During the year a main and tail rope haulage system has been installed underground.

Mrs. E. Kelly. (Mine No. 178)

Overman: Henry Hunter.

Location of Mine: Sec. 8, Tp. 55, Rge. 24, W. 4th M.

Area: 10 acres.

Method of Ventilation: Natural.

The coal seam at this mine is 4 ft. 8 ins. in thickness and lies at a depth of 80 ft. from the surface. Open lights are used throughout.

Evan T. Davies. (Mine No. 179)

Location of Mine: Sec. 31, Tp. 2, Rge. 15, W. 4th M.

Area: 320 acres.

Method of Ventilation: Natural.

The seam at this mine is 4 ft. 6 ins. in thickness, of which 3 ft. 6 ins. is saleable.

Jonathan J. Mills. (Mine No. 180)

Overman: Jonathan J. Mills.

Location of Mine: Sec. 23, Tp. 9, Rge. 13, W. 4th M.

Area: 200 acres.

Method of Ventilation: Natural.

This mine is located in a coulee about five miles south of Grassy Lake. The coal seam is about 4 ft. in thickness with 14 inches of bone and shale in the centre and lies at a depth of 30 ft. from the surface. The mine is entered by means of a drift.

Poxon & Blacklock (Mine No. 187)

Overman: Alex. Blacklock.

Location of Mine: Sec. 15, Tp. 29, Rge. 23, W. 4th M.

Method of Ventilation: Natural.

This mine is entered by means of a slope which is 115 ft. long and pitching at an inclination of 10 per cent. The seam is 4 ft. in thickness and lies at a depth of 70 ft. from the surface.

Charles J. Hedstorm. (Mine No. 189)

Location of Mine: Sec. 7, Tp. 29, Rge. 22, W. 4th M.

Method of Ventilation: Natural.

The seam at this mine is 3 ft. in thickness and lies at a depth of 100 ft. from the surface. The mine is entered by means of a drift at the bottom of a coulee.

City of Lethbridge. (Mine No. 192)

Overman: Alfred Davis.

Mine Surveyor: William A. Adam.

Mine Office: Lethbridge.

Location of Mine: Sec. 36, Tp. 8, Rge. 22, W. 4th M.

Method of Ventilation: Natural.

The seam at this mine is 4 ft. in thickness and lies at a depth of

200 ft. from the surface. The mine is operated for the purpose of supplying the Lethbridge City power plant with coal. Open lights are used throughout.

West Canadian Collieries Limited. (Mine No. 193)
(Blairmore Mine.)

Mine Manager: Raoul Green.
Mine Office: Blairmore, Alberta.
Location of Mine: Sec. 35, Tp. 7, Rge. 4, W. 5th M.
Area: 2,240 acres.
Method of Ventilation: Natural.

This seam averages 4 ft. 6 ins. in thickness and is pitching at an inclination of about 40 degrees. It has not been operated during the year 1915.

The Knee Hill Coal Company, Limited. (Mine No. 194)

Authorized Capital: \$500,000.00.
President: Thomas Gaddes, M.D.
Vice-President: N. J. Christie.
Directors: Thomas Gaddes, George Gaddes, N. J. Christie, J. P. McArthur, Duncan Stuart, E. McBride, Arch. Finlayson, Colin McPherson.
Secretary-Treasurer: Herbert B. Adshead.
Managing Director: N. J. Christie.
Overman: Thomas Downs.
Mine Surveyor: James Crowder.
Head Office: Calgary, Alberta.
Mine Office: Ghost Pine Creek, Alberta.
Location of Mine: Sec. 4, Tp. 31, Rge. 22, W. 4th M.
Area: 540 acres.
Method of Ventilation: Natural.

This mine, which is situated about 18 miles northeast of Carbon, has a seam 4 ft. 6 ins. in thickness.

Watkin E. Watkins. (Mine No. 198)

Overman: W. E. Watkins.
Mine Surveyor: Norman Fraser.
Location of Mine: Sec. 4, Tp. 16, Rge. 23, W. 4th M.
Area: 40 acres.
Method of Ventilation: Natural.

This mine, which is situated eight miles northeast of Champion, is entered by means of a slope 135 ft. long with a 15 per cent. grade. The seam is 3 ft. 6 ins. in thickness and lies at a depth of 60 ft. from the surface.

Canadian Coal & Coke Company, Limited. (Mine No. 199)
(Beaver Mines.)

Mine Manager: Samuel McVicar.
Mine Office: Beaver Mines, Alberta.
Location of Mine: Sec. 10, Tp. 6, Rge. 2, W. 5th M.
Area: 6,882 acres.
Method of Ventilation: Forcing fan.

This mine has not been in operation since the end of March, 1915, when it was closed down. The seam of coal, which is 7 ft. in thickness, is pitching at an inclination of about 30 degrees.

Golden West Coal Mining Company, Limited. (Mine No. 201)

Authorized Capital: \$50,000.00.
 President: E. S. Bowden.
 Vice-President: G. Ridley.
 Directors: E. S. Bowden, A. L. Bowden, G. Ridley.
 Secretary-Treasurer: A. L. Bowden.
 General Manager: E. S. Bowden.
 Overman: H. C. Black.
 Head Office: Taber, Alberta.
 Mine Office: Taber, Alberta.
 Location of Mine: Sec. 18, Tp. 10, Rge. 16, W. 4th M.
 Area: 80 acres.
 Method of Ventilation: Natural.

This seam is 4 ft. in thickness and is worked on the room and pillar system. Open lights are used throughout the mine as no gas is reported as having been found.

New Barnes Coal Company. (Mine No. 203)

Overman: William Bunting.
 Mine Surveyor: W. A. Adam.
 Mine Office: Royal View, Lethbridge, Alberta.
 Location of Mine: Sec. 31, Tp. 9, Rge. 21, W. 4th M.

The seam at this mine is 4 ft. in thickness and is worked on the room and pillar system. Open lights are used throughout the mine.

McGillivray Creek Coal & Coke Company, Limited. (Mine No. 204)

Authorized Capital: \$3,000,000.00.
 President: Lorne A. Campbell, M.P.P.
 Vice-President: James A. Nowell.
 Directors: Lorne A. Campbell, M.P.P., James A. Nowell, Henry L. Simons, Fitzhugh Burns and W. E. Cullen, Jr.
 Secretary-Treasurer: W. E. Cullen, Jr.
 Managing Director: Lorne A. Campbell, M.P.P.
 Mine Manager: George Kellock.
 Overmen: A. B. Hunter and Thomas Parry.
 Examiners: A. Scott, H. Gate and J. O. C. McDonald.
 Master Mechanic: Herdman McLeod.
 Mine Surveyor: G. W. B. Daniell.
 Head Office: Rossland, British Columbia.
 Mine Office: Coleman, Alberta.
 Location of Mine: Sec. 17, Tp. 8, Rge. 4, W. 5th M.
 Area: 1,950 acres.

The seam, which averages 9 ft. in thickness, is pitching at an inclination of 30 degrees. It is worked on the panel system with ten rooms in each section, a barrier of coal being left between each two sections. The coal is lowered to the main gangway from the working places by means of a self-acting incline and is hauled along the main gangway by electric storage battery locomotives.

Safety lamps of the Wolf type are used throughout the mine.

The ventilation is produced by an electrically driven Sirocco fan capable of producing 50,000 cubic feet of air per minute.

Carl G. Hilker. (Mine No. 212)

Overman: Carl G. Hilker.
 Mine Surveyor: Norman Fraser.

Location of Mine: Sec. 8, Tp. 39, Rge. 15, W. 4th M.
Method of Ventilation: Natural.

The seam of coal, which is 6 ft. in thickness and lying at a depth of 90 ft. from the surface, is entered by means of a drift in the side of a coulee. The mine is located about $4\frac{1}{2}$ miles northeast of Halkirk and is only operated during the winter months. Most of the output from this mine is hauled to Halkirk by teams and loaded into railway cars.

E. N. McKenzie. (Mine No. 215)

Overman: R. Martin.
Mine Surveyor: Norman Fraser.
Mine Office: Dodds, Alberta.
Location of Mine: Sec. 14, Tp. 49, Rge. 18, W. 4th M.
Method of Ventilation: Natural.

This mine is entered by means of a slope and the seam is worked on the room and pillar system. Practically the only work done at this mine is the extraction of pillars.

Ellis Brothers. (Mine No. 218)

Location of Mine: Sec. 8, Tp. 16, Rge. 23, W. 4th M.
Area: 160 acres.
Method of Ventilation: Natural.

The seam at this mine averages a thickness of 3 ft. 6 ins. and lies at a depth of 60 ft. from the surface.

G. H. Knowlton. (Mine No. 219)

Location of Mine: Sec. 30, Tp. 29, Rge. 5, W. 5th M.

This mine has not been in operation during the year 1915.

The Yellowhead Pass Coal and Coke Company, Limited. (Mine No. 220)

Location of Mine: Sec. 6, Tp. 49, Rge. 21, W. 5th M.
Area: 6,600 acres.
Method of Ventilation: Forcing fan.

This mine was closed down in March, 1915, as it was found otherwise impossible to deal with an underground fire which had been burning for several months. It has been impossible to definitely decide whether this fire was caused by spontaneous combustion or whether it was started by a large bush fire which occurred a few months previous. The mine was sealed up as far as possible but I understand this fire is still burning.

Samuel Henderson. (Mine No. 224)

Location of Mine: Sec. 29, Tp. 16, Rge. 21, W. 4th M.
Area: 20 acres.
Method of Ventilation: Natural.

The seam at this mine is 2 ft. 3 ins. in thickness and is lying at a depth of 100 ft. from the surface. The mine, which is operated on a small scale, is situated about 24 miles northeast of Champion.

The Prairie Coal Company, Limited. (Mine No. 226)

Authorized Capital: \$1,000,000.00.
President: A. Casey.
Vice-President: G. S. Harold.
Directors: J. Balfour, G. S. Gamble, R. D. McMurchy, C. E. Cullum,
C. R. Westgate.
Secretary-Treasurer: C. R. Westgate.
Managing Director: C. R. Westgate.
Overman: John Barr.
Mine Surveyor: Norman Fraser.
Head Office: Regina, Sask.
Mine Office: Eyremore, Alberta.
Location of Mine: Sec. 16, Tp. 17, Rge. 17, W. 4th M.
Area: 5,000 acres.
Method of Ventilation: Furnace.

The coal seam at this mine is 5 ft. in thickness and is lying at a depth of 125 ft. from the surface. The mine is situated on the banks of the Bow River, about 25 miles southwest of Brooks, and is entered by means of a drift.

Pembina Coal Operators Limited. (Mine No. 227)

Authorized Capital: \$10,000.00.
President: H. M. E. Evans.
Directors: H. M. E. Evans, M. L. Hyde.
Managing Director: M. L. Hyde.
Mine Manager: S. D. Wark.
Overmen: John Marshall, O. Smith.
Engineers: J. B. Davis and C. Stratton.
Master Mechanic: G. Dickinson.
Mine Surveyor: S. D. Wark.
Head Office: Edmonton, Alberta.
Mine Office: Evansburgh, Alberta.
Location of Mine: Sec. 30, Tp. 53, Rge. 7, W. 5th M.
Area: 10,500 acres.
Method of Ventilation: Exhausting fan.

Two coal seams have been proved, the lower of which is being worked. This seam is 7 ft. 6 ins. in thickness and lies at a depth of 300 ft. from the surface. Safety lamps of the Wolf type are used throughout the mine although a number of electric lamps of the Edison type are being used by machine men.

Superior Coal Company, Limited. (Mine No. 229)

Overman: G. H. Parkes.
Location of Mine: Sec. 18, Tp. 10, Rge. 16, W. 4th M.
Area: 5,009 acres.
Method of Ventilation: Natural.

The seam at this mine is 4 ft. in thickness and is undercut by means of compressed air coal cutting machines. Open lights are used throughout the mine.

The Georgetown Collieries Limited. (Mine No. 231)

Authorized Capital: \$250,000.00.
President: S. K. George.
Vice-President: C. K. George.
Directors: Sir Thomas Holditch, Turner Henderson, J. T. Phoenix.
Secretary-Treasurer: W. E. G. Hale.
Managing Director: C. K. George.

Method of Ventilation: Forcing fan.

Canadian Coal & Coke Company, Limited. (Mine No. 233)
(Lovettville.)

Location of Mine: Sec. 3, Tp. 47, Rge. 19, W. 5th M.

Area: 40,000 acres.

Method of Ventilation: Forcing fan.

Baker, Hoge & Baker. (Mine No. 234)

Location of Mine: Sec. 11, Tp. 17, Rge. 17, W. 4th M.
Method of Ventilation: Natural.

Method of Ventilation: Natural.

The seam at this mine is 5 ft. 6 ins. in thickness and is entered by means of a drift in the river bank. Very little work has been done at this mine during the year.

The Capital Coal Company, Limited. (Mine No. 237)

Overman: E. Gervais.
 Mine Surveyor: Norman Fraser.
 Head Office: Edmonton, Alberta.
 Mine Office: Cardiff, Alberta.
 Location of Mine: Sec. 24, Tp. 55, Rge. 25, W. 4th M.
 Area: 160 acres.
 Method of Ventilation: Natural.

Location of Mine: Sec. 24, Tp. 55, Rge. 25, W. 4th M.

Area: 160 acres.

Method of Ventilation: Natural.

This seam, which is entered by a shaft, is 12 ft. in thickness but only 8 ft. is being operated. It is lying at a depth of 40 ft. from the surface. Open lights are used throughout the mine.

The Spicer Coal Company, Limited. (Mine No. 241)

Authorized Capital: \$60,000.00.
President: T. K. McCallum.
Vice-President: J. P. Murphy.
Directors: R. J. Chown, J. D. McDonald, John Spicer, J. C. Bell and J. H. Clare.
Secretary-Treasurer: R. J. Chown.
General Manager: G. S. Hunter.
Mine Manager: John A. McLenhan.
Engineer: C. E. Hughes.
Mine Surveyor: John A. McLenhan.
Head Office: Saskatoon, Sask.
Mine Office: Dinant, Alberta.
Location of Mine: Sec. 18, Tp. 48, Rge. 19, W. 4th M.
Area: 160 acres.
Method of Ventilation: Natural.

The seam at this mine is 6 ft. in thickness and is lying at a depth of 40 ft. from the surface. During the past year an airshaft 4½ ft. square has been sunk. Open lights are used throughout the mine.

W. B. Potter. (Mine No. 242)

Location of Mine: Sec. 15, Tp. 44, Rge. 19, W. 4th M.
Area: 160 acres.
Method of Ventilation: Natural.

The thickness of the seam at this mine is 3 ft. Open lights are used throughout.

Fortner & Wright. (Mine No. 243)

Location of Mine: Sec. 26, Tp. 37, Rge. 14, W. 4th M.
Area: 160 acres.
Method of Ventilation: Natural.

The seam at this mine is 6 ft. in thickness and lies at a depth of 15 ft. from the surface. The mine was abandoned during the year 1915.

The Stony Creek Collieries, Limited. (Mine No. 244)

Authorized Capital: \$50,000.00.
President: Francis Adam.
Directors: D. Twomey, J. R. N. Cooke, M. A. Maxwell.
Secretary: E. L. Scotwald.
Treasurer: D. Twomey.
Overman: J. Matthewson.
Mine Surveyor: Norman Fraser.
Mine Office: Camrose, Alberta.
Location of Mine: Secs. 28/33, Tp. 46, Rge. 20, W. 4th M.
Method of Ventilation: Natural.

This mine is entered by means of a drift. The seam, which is 4 ft. in thickness, is lying at a depth of 90 ft. from the surface. Open lights are used throughout the mine.

Bish Brothers & Legear. (Mine No. 245)

Overman: W. F. Bish.
Mine Surveyor: Norman Fraser.

Mine Office: Hasting Coulee, Alberta.

Location of Mine: Sec. 36, Tp. 40, Rge. 16, W. 4th M.

Area: 80 acres.

Method of Ventilation: Natural.

This mine, which is situated on the banks of the Battle River, is entered by means of a drift. The coal when brought out of the mine is emptied into a skip and hoisted up the slope on the surface to the prairie level. A Sullivan single stage air compressor has been installed for the purpose of supplying compressed air for the operation of two coal cutting machines which are used for under-cutting the coal. The seam, which is 8 ft. in thickness, lies at a depth of 40 ft. from the surface.

A. D. McCormack. (Mine No. 246)

Overman: A. D. McCormack.

Mine Surveyor: Norman Fraser.

Location of Mine: Sec. 34, Tp. 37, Rge. 14, W. 4th M.

Area: 320 acres.

Method of Ventilation: Natural.

The seam at this mine is 5 ft. in thickness and lies at a depth of 35 ft. from the surface. The mine is entered by means of a drift and is situated about two miles west of Castor.

Chinook Coal Company, Limited. (Mine No. 247)

Authorized Capital: \$3,000,000.00.

President: William A. Wood.

Vice-President: Miller Lash.

Directors: William A. Wood, Miller Lash, C. R. Sommerville, Robert Cassels, Cyrus Birge, C. Cook and H. A. McCallum.

Secretary-Treasurer: W. de B. Daly.

Mine Manager: Adam H. Reid.

Overman: Peter Jones.

Examiners: J. W. Steel, George Loxton, E. Berford.

Master Mechanic: A. Higgins.

Mine Surveyor: C. C. Richards.

Head Office: Lethbridge, Alberta.

Mine Office: Commerce, Alberta.

Location of Mine: Sec. 12, Tp. 10, Rge. 22, W. 4th M.

Area: 8,300 acres.

Method of Ventilation: Reversible fan.

The seam at this mine is 4 ft. 2 ins. in thickness. The mine is ventilated by means of a steam-driven Sullivan fan, capable of producing about 45,000 cubic feet of air per minute with an average water gauge of .8 ins. The mine is divided into four splits. Open lights are used throughout the mine but as gas has been reported on several occasions during the past year, arrangements are being made to have portable electric safety lamps installed.

J. M. Schares. (Mine No. 249)

Location of Mine: Sec. 16, Tp. 42, Rge. 17, W. 4th M.

This mine is situated about 22 miles southwest of Daysland. The seam is 4 ft. 8 ins. in thickness and lies at a depth of 50 ft. from the surface.

The Round Hill Collieries, Limited. (Mine No. 250)

Authorized Capital: \$100,000.00.
President: D. Twomey.
Directors: George P. Smith, M.P.P., Dr. G. G. Stewart, J. K. Burgess,
J. R. N. Cooke and D. Twomey.
Secretary-Treasurer: J. Twomey.
Managing Director: George P. Smith, M.P.P.
Overman: David S. Williamson.
Mine Surveyor: Norman Fraser.
Head Office: Round Hill, Alberta.
Mine Office: Round Hill, Alberta.
Location of Mine: Sec. 30, Tp. 48, Rge. 18, W. 4th M.
Method of Ventilation: Natural.

This mine is entered by means of a slope. The seam, which is 6 ft. in thickness, is lying at a depth of 40 ft. from the surface. Two additional airshafts have been sunk during the year.

Julius Wilkinson. (Mine No. 251)

Overman: Julius Wilkinson.
Mine Surveyor: James Hargreaves.
Mine Office: Daysland, Alberta.
Location of Mine: Sec. 28, Tp. 42, Rge. 17, W. 4th M.
Area: One acre.
Method of Ventilation: Natural.

The seam at this mine is 4 ft. in thickness and lies at a depth of about 70 ft. from the surface. The mine, which is situated about 18 miles southwest of Daysland, is entered by means of a drift and is operated on a small scale.

Tofield Coal Company, Limited. (Mine No. 252)

Location of Mine: Sec. 26, Tp. 50, Rge. 19, W. 4th M.

The seam of coal, which is 8 ft. in thickness, has a cover of 12 ft. over it and is worked by means of stripping the surface, after which the coal is loaded direct into the railway cars.

A. D. McKinnon. (Mine No. 253)

Location of Mine: Sec. 36, Tp. 5, Rge. 2, W. 5th M.

This mine has not been worked for some considerable time and is now abandoned. The seam operated at this mine was 8 ft. in thickness and was pitching at an angle of about 30 degrees.

Brazeau Collieries, Limited. (Mine No. 256)

Authorized Capital: \$4,000,000.00.
President: Martin Nordegg.
Directors: Emil Baerwald, Lambert Jadot, A. J. Mitchell, Sir William McKenzie, Sir Donald Mann, Martin Nordegg.
Secretary-Treasurer: R. P. Ormsby.
General Manager: Ernest Gheurr.
Mine Manager: John Shanks.
Overman: James Stewart.
Examiners: J. McKelvie, D. Shanks, T. Keith, W. Wesnedge, C. Snarey.
Charles Hulme.
Master Mechanic: Joseph Verdon.

Mine Surveyor: William Stevenson, Jr.
Head Office: 9 Toronto Street, Toronto, Ont.
Mine Office: Nordegg, Alberta.
Location of Mine: Sec. 28, Tp. 40, Rge. 15, W. 5th M.
Area: 2,560 acres.
Method of Ventilation: Exhausting fan. (Reversible.)

This mine is located at Nordegg, on the Brazeau branch of the Canadian Northern Railway. Two seams of coal are being worked, No. 2, which varies in thickness from 6 to 8 ft., and No. 3, from 14 to 20 ft.

William G. Noble. (Mine No. 257)

Overman: Austin Reid.
Mine Surveyor: Norman Fraser.
Location of Mine: Sec. 7, Tp. 23, Rge. 14, W. 4th M.
Method of Ventilation: Natural.

This mine is situated on the east bank of the Red Deer River, about 25 miles north of Brooks. The seam is 4 ft. in thickness and lies at a depth of 200 ft. from the surface.

Conner Coal Mining Company, Limited. (Mine No. 260)

Overman: J. McLellan.
Location of Mine: Sec. 14, Tp. 53, Rge. 4, W. 5th M.
Method of Ventilation: Natural.

This mine is entered by means of a drift. The coal seam, which is 12 ft. in thickness, is lying at a depth of 50 ft. from the surface. Only 8 ft. of the seam is worked. Open lights are used throughout the mine.

James McGary. (Mine No. 262)

Overman: John Wilkie.
Mine Surveyor: Norman Fraser.
Location of Mine: Sec. 19, Tp. 29, Rge. 12, W. 4th M.
Area: 240 acres.
Method of Ventilation: Natural.

This mine is situated 18 miles southeast of Hanna and is operated by a slope 50 ft. in length. The coal seam is 9 ft. in thickness with a cover varying from 15 to 25 ft. over it.

Staveley Coal Mining Company. (Mine No. 264)

Overman: Herbert Rhodes.
Mine Surveyor: Norman Fraser.
Location of Mine: Sec. 29, Tp. 14, Rge. 21, W. 4th M.
Area: 40 acres.
Method of Ventilation: Natural.

This mine is situated 16 miles southeast of Champion and is entered by means of drifts in the side of the hill. The seam, which is 3 ft. 6 ins. in thickness, has a cover of 150 ft. over it. A new drift has been opened 300 ft. east of the old workings.

*Canadian Coal & Coke Company, Limited. (Mine No. 267)**(St. Albert.)*

Mine Manager: Thomas O'Donnell.
Mine Surveyor: Thomas O'Donnell.
Head Office: Montreal, Que.
Mine Office: St. Albert, Alberta.
Location of Mine: Sec. 28, Tp. 53, Rge. 25, W. 4th M.
Area: 2,000 acres.
Method of Ventilation: Forcing fan.

This mine is entered by means of a shaft. The seam is 7 ft. in thickness and lies at a depth of 320 ft. from the surface. Safety lamps of the Wolf type are used throughout the mine.

Strader & Green. (Mine No. 268)

Location of Mine: Sec. 18, Tp. 39, Rge. 15, W. 4th M.
Area: 30 acres.
Method of Ventilation: Natural.

The seam at this mine is 5 ft. 8 ins. in thickness and lies at a depth of 80 ft. from the surface. The mine is located in a coulee about $4\frac{1}{2}$ miles north of Halkirk.

Carl E. Hollander. (Mine No. 271)

Overman: Frank Christie.
Mine Surveyor: Norman Fraser.
Location of Mine: Sec. 26, Tp. 2, Rge. 16, W. 4th M.
Area: 320 acres.
Method of Ventilation: Natural.

The coal seam, which is 3 ft. 2 ins. in thickness, is worked on the room and pillar method. Open lights are used throughout the mine.

John S. Hutchison. (Mine No. 272)

Overman: John M. Young.
Mine Surveyor: Norman Fraser.
Location of Mine: Sec. 15, Tp. 9, Rge. 11, W. 4th M.
Area: 20 acres.
Method of Ventilation: Natural.

The seam is 24 ins. in thickness with 6 ins. of bone in the centre and has a very inferior roof. The mine, which is entered by two shafts, 40 ft. in depth, is situated 11 miles southwest of Bow Island.

Davis & Green. (Mine No. 273)

Overman: W. J. Davis.
Mine Surveyor: Norman Fraser.
Location of Mine: Sec. 18, Tp. 39, Rge. 15, W. 4th M.
Method of Ventilation: Natural.

The seam at this mine is 5 ft. 6 ins. in thickness and lies at a depth of 70 ft. from the surface. Only 4 ft. is being extracted, 18 ins. being left up to support the roof. The mine is entered by means of a drift in the side of the bank in a coulee.

The National Coal Company. (Mine No. 275)

Mine Manager: Thomas Horne.

Mine Surveyor: Thomas Horne.

Mine Office: Coalbeck, Castor, Alberta.

Location of Mine: Sec. 3, Tp. 38, Rge. 14, W. 4th M.

Area: 773 acres.

Method of Ventilation: Natural.

The seam at this mine is 5 ft. 6 ins. in thickness and has a cover of 20 ft. over it. The mine is entered by means of three drifts and is situated about $2\frac{1}{2}$ miles west of Castor. The output from the three shafts is hauled to one tippie by means of horses. A spur line has been laid into the mine from the Lacombe branch of the Canadian Pacific Railway.

Slockett & Murray. (Mine No. 276)

Location of Mine: Sec. 9, Tp. 10, Rge. 21, W. 4th M.

This mine, which has been operating in the past on a very small scale, has been abandoned for some considerable time.

Daniel G. McKay. (Mine No. 279)

Location of Mine: Sec. 1, Tp. 3, Rge. 16, W. 4th M.

Area: 20 acres.

Method of Ventilation: Natural.

Although the seam at this mine is 5 ft. in thickness, only about 2 ft. 6 ins. of it is saleable. Open lights are used throughout the mine.

Jasper Park Collieries, Limited. (Mine No. 280)

Authorized Capital: \$2,500,000.00.

President: J. L. Washburn.

Vice-President: J. L. Cote, M.P.P.

Directors: J. L. Washburn, M. H. Alworth, E. B. Hawkins, J. L. Cote, M.P.P., C. A. Duncan, D. W. McDonald, R. H. Morris.

Secretary: S. Grimble.

Treasurer: R. T. Maxwell.

Managing Director: J. L. Washburn.

General Manager: R. H. Morris.

Mine Manager: Andrew N. Scott.

Overmen: T. Shaw, C. Chestnut.

Examiners: J. Brown, J. James, D. J. Gwilliam.

Master Mechanic: Alex. McDonald.

Mine Surveyor: Ira C. Callander.

Head Office: Duluth, Minn., U.S.A.

Mine Office: Pocahontas, Alberta.

Location of Mine: Sec. 6, Tp. 49, Rge. 27, W. 5th M.

Area: 8,000 acres.

Method of Ventilation: Exhausting and forcing fans.

The seam of coal, which is lying at an angle of about 50 degrees, varies in thickness from 10 to 15 ft.

The mine is entered by means of a drift and is worked on the angle system.

During the year a rock tunnel 7 ft. by 10 ft. has been driven a distance of 375 ft. for the purpose of intersecting another seam.

This mine is situated on the main line of the Grand Trunk

Pacific Railway and another mine, situated on the main line of the Canadian Northern Railway, was opened some time ago but owing to lack of market had to be closed down.

Mountain Park Coal Company, Limited. (Mine No. 282)

Authorized Capital: \$2,500,000.00.
 President: C. J. Leyland.
 Directors: R. W. Jones, G. R. F. Kirkpatrick, J. C. C. Bremner, N. M. Thornton, D. McCowan, Alex. M. Mitchell.
 Secretary: E. M. Anderson.
 General Manager: N. M. Thornton.
 Mine Manager: Thomas Mather.
 Overman: William Eccleston.
 Master Mechanic: W. T. Henry.
 Mine Surveyor: Ronald H. Watson.
 Head Office: 301 Tegler Building, Edmonton, Alberta.
 Mine Office: Mountain Park, Alberta.
 Location of Mine: Sec. 33, Tp. 45, Rge. 23, W. 5th M.
 Method of Ventilation: Exhausting and forcing fans.

Two seams are being operated at this mine, No. 1 being 4 ft. in thickness and No. 3 seam, 29 ft. in thickness. No. 1 is entered by means of a drift and No. 3 by a drift and two slopes. The slope in No. 3 seam has been sunk for a distance of 500 ft. with an average inclination of 27 per cent. Ventilation is produced by electrically driven fans.

Great West Coal Company, Limited. (Mine No. 283)
(Shaft Mine.)

Location of Mine: Sec. 6, Tp. 53, Rge. 23, W. 4th M.

This mine has not worked during the year 1915 and is now abandoned.

Herbert Baines. (Mine No. 288)

Overman: D. Gray.
 Mine Surveyor: Norman Fraser.
 Location of Mine: Sec. 28, Tp. 39, Rge. 16, W. 4th M.
 Area: 20 acres.
 Method of Ventilation: Natural.

The seam at this mine is 4 ft. 6 ins. in thickness and is lying at a depth of 50 ft. from the surface. The mine is only operated during the winter months.

Armour Gray. (Mine No. 289)

Overman: Armour Gray.
 Mine Surveyor: Norman Fraser.
 Location of Mine: Sec. 28, Tp. 39, Rge. 16, W. 4th M.
 Method of Ventilation: Natural.

This mine is entered by means of a slope, 30 ft. long-drivers, on a 5 per cent. grade. The seam is 4 ft. 6 ins. in thickness.

Joseph Wagner. (Mine No. 291)

Overman: Joseph Wagner.

Mine Surveyor: Norman Fraser.

Location of Mine: Sec. 28, Tp. 39, Rge. 16, W. 4th M.

Area: 20 acres.

Method of Ventilation: Natural.

The mine is entered by means of a drift into the coal seam which is about 4 ft. 6 ins. in thickness. The coal is hoisted up a slope about 30 ft. in length to the screens.

J. H. Owen. (Mine No. 295)

Overman: Samuel Nicholson.

Mine Surveyor: Norman Fraser.

Location of Mine: Sec. 11, Tp. 5, Rge. 1, W. 5th M.

Area: 160 acres.

Method of Ventilation: Natural.

Two seams, 12 ft. and 6 ft. in thickness, respectively, are being operated. The mine is wet throughout and open lights are used.

Ellis Brothers. (Mine No. 296)

Overman: W. Ellis.

Mine Surveyor: William Ellis.

Location of Mine: Secs. 5 and 8, Tp. 16, Rge. 23, W. 4th M.

Method of Ventilation: Natural.

The seam at this mine is 3 ft. 6 ins. in thickness and lies at a depth of 60 ft. from the surface. The mine, which is entered by means of two slopes, 130 ft. long, is located about eight miles north-east of Champion.

O. N. Gilbert. (Mine No. 299)

Overman: Joe Debrinski.

Mine Surveyor: Norman Fraser.

Location of Mine: Sec. 29, Tp. 26, Rge. 21, W. 4th M.

Method of Ventilation: Natural.

This mine is situated about eight miles southeast of Rosebud and is entered by means of two drifts. The seam, which is 4 ft. in thickness, is lying at a depth of 70 ft. from the surface.

Battle River Collieries, Limited. (Mine No. 302)

Authorized Capital: \$1,000,000.00.

President: A. S. Rosenroll.

Vice-President: A. Bramley Moore.

Directors: A. S. Rosenroll, A. Bramley Moore and C. T. Stacey.

Secretary-Treasurer: A. C. Stacey.

Mine Manager: Norman Fraser.

Overman: Donald McKay.

Examiner: W. E. Boulton.

Overman: Donald McKay.

Head Office: Rosenroll, Alberta.

Mine Office: Rosenroll, Alberta.

Location of Mine: Sec. 7, Tp. 46, Rge. 18, W. 4th M.

Area: 3,200 acres.

Method of Ventilation: Natural.

This mine is entered by a shaft. The coal seam is 7 ft. 6 ins. in thickness and is lying at a depth of 162 ft. from the surface. Open lights are used throughout the mine.

George Watson. (Mine No. 303)

Location of Mine: Sec. 22, Tp. 31, Rge. 24, W. 4th M.

No work has been done at this mine during the year 1915, and the mine is now abandoned.

Hugh McLean. (Mine No. 304)

Overman: Hugh McLean.

Mine Surveyor: Thomas Horne.

Location of Mine: Sec. 34, Tp. 37, Rge. 14, W. 4th M.

Method of Ventilation: Natural.

This mine is entered by means of a shaft 6 ft. 6 ins. by 12 ft. long by 21 ft. deep, the cars being hoisted up the shaft by a horse gin.

H. B. Hughson. (Mine No. 308)

Overman: S. Dixon.

Mine Surveyor: James Hargreaves.

Location of Mine: Sec. 10, Tp. 3, Rge. 11, W. 4th M.

Area: 90 acres.

Method of Ventilation: Natural.

This mine is located 27 miles northeast of Milk River and is entered by means of a drift. The seam is 4 ft. in thickness with 10 ins. of clay in the centre.

J. A. Haeckl. (Mine No. 309)

Overman: J. A. Haeckl.

Mine Surveyor: Norman Fraser.

Location of Mine: Sec. 21, Tp. 23, Rge. 14, W. 4th M.

This mine is located 22 miles southeast of Hanna and is entered by means of a drift. The seam is 5 ft. in thickness and lies at a depth of 70 ft. from the surface.

Wm. R. Walsh. (Mine No. 314)

Overman: William R. Walsh.

Mine Surveyor: Norman Fraser.

Location of Mine: Sec. 29, Tp. 33, Rge. 23, W. 4th M.

Method of Ventilation: Natural.

This mine is entered by means of three entries driven in the banks of the Red Deer River, near Ardley. The seam is 6 ft. in thickness and has a cover of 200 ft. over it. The mine cars are hoisted to the tippie by means of an incline. A short spur line connects the mine with the Calgary-Edmonton branch of the Grand Trunk Pacific Railway.

Halbert Brothers. (Mine No. 315)

Overman: David Halbert.

Mine Surveyor: Norman Fraser.

Location of Mine: Sec. 14, Tp. 33, Rge. 23, W. 4th M.

Area: 40 acres.

Method of Ventilation: Natural.

This mine is situated about three miles east of Trochu and is entered by means of two slopes. The seam is 5 ft. 5 ins. in thickness and lies at a depth of 80 ft. from the surface.

Cardston Coal and Coke Company, Limited.

Location of Mine: Sec. 26, Tp. 2, Rge. 26, W. 4th M.

This mine, which is now abandoned, was opened up by two entries. The seam is about 8 ft. in thickness and pitches at an inclination of 12 degrees.

Newcastle Coal Company, Limited, (Mine No. 317)

Authorized Capital: \$250,000.00.

President: George Gouge.

Vice-President: G. W. Coyle.

Directors: Mrs. Maud Gouge, G. W. Coyle, G. N. Coyle.

Secretary-Treasurer: G. N. Coyle.

Managing Director: Jesse Gouge.

General Manager: Wilson Gouge.

Mine Manager: James Holden.

Overman: Joseph Thompson.

Examiners: Joe Parker, W. Barclay.

Master Mechanic: Wilson Gouge.

Mine Surveyor: James Holden.

Head Office: Drumheller, Alberta.

Mine Office: Drumheller, Alberta.

Location of Mine: Sec. 9, Tp. 29, Rge. 20, W. 4th M.

Method of Ventilation: Exhausting fan.

This mine is located about 11½ miles west of Drumheller, on the Canadian Northern Railway. No. 2 seam which varies from 4 to 4½ ft. in thickness is lying at a depth of 300 ft. from the surface. Safety lamps of the Kohler type are used throughout the mine. All shots are fired by means of electric batteries. The mine is opened up by means of a short slope. The fan, which is electrically driven, is capable of producing 60,000 cubic ft. of air per minute.

Duncan McKenzie. (Mine No. 318)

Overman: Duncan McKenzie.

Mine Surveyor: Norman Fraser.

Location of Mine: Sec. 29, Tp. 30, Rge. 22, W. 4th M.

Area: 40 acres.

Method of Ventilation: Natural.

This mine is located in a coulee about 12 miles northeast of Carbon, and is entered by means of a drift. The seam, which is 3 ft. in thickness, lies at a depth of 200 ft. from the surface.

Col. James A. Walker. (Mine No. 321)

Overman: F. Bateman.

Mine Surveyor: Norman Fraser.

Location of Mine: Sec. 19, Tp. 29, Rge. 13, W. 4th M.

Method of Ventilation: Natural.

This mine is situated at Sheerness, about ten miles southwest of Richdale, on the Saskatoon branch of the Canadian Northern Railway. The seam, which is 9 ft. in thickness, lies at a depth of 30 ft. from the surface.

Arthur Morgan. (Mine No. 323)

Mine Surveyor: Norman Fraser.

Location of Mine: Sec. 14, Tp. 9, Rge. 11, W. 4th M.

Method of Ventilation: Natural.

This mine is located about ten miles south of Bow Island and is entered by two shafts 40 ft. deep. The coal seam is 2 ft. 4 ins. in thickness.

Dominic Annon. (Mine No. 324)

Overman: Dominic Annon.

Mine Surveyor: Norman Fraser.

Location of Mine: Sec. 22, Tp. 12, Rge. 10, W. 4th M.

Area: 20 acres.

Method of Ventilation: Natural.

This mine is located about 14 miles north of Winnifred and was formerly operated by Jules Lavenne. The seam, which is 4 ft. 5 ins. in thickness and lying at a depth of 125 ft. from the surface, is entered by a drift at the bottom of a coulee.

Russian Coal Company. (Mine No. 325)

Overman: Peter Jhakull.

Mine Surveyor: Norman Fraser.

Location of Mine: Sec. 4, Tp. 38, Rge. 14, W. 4th M.

Method of Ventilation: Natural.

This mine, which was formerly operated by Thos. A. Marshall, is situated near Castor and is entered by means of a two compartment shaft 6 ft. 6 ins. by 12 ft. by 35 ft. deep. The seam is 5 ft. in thickness.

George C. Yard. (Mine No. 328)

Overman: George C. Yard.

Mine Surveyor: Norman Fraser.

Area: 160 acres.

Method of Ventilation: Natural.

This mine is located ten miles east of Huxley and is entered by means of a drift. The coal seam, which is 5 ft. 6 ins. in thickness, lies at a depth of 25 ft. from the surface.

John Heaney. (Mine No. 329)

Overman: John Heaney.
Location of Mine: Sec. 4, Tp. 38, Rge. 14, W. 4th M.
Method of Ventilation: Natural.

This mine is located $3\frac{1}{2}$ miles west of Castor and is entered by means of a slope. The seam is 5 ft. 6 ins. in thickness and lies at a depth of 30 ft. from the surface.

The Link Coal Company. (Mine No. 330)

General Manager: W. L. Hamilton.
Mine Manager: Joseph D. Thomas.
Location of Mine: Sec. 25, Tp. 5, Rge. 2, W. 5th M.
Area: 1,000 acres.
Method of Ventilation: Natural.

The coal seam at this mine is 6 ft. in thickness and is pitching at an inclination of about 10 degrees. Open lights are used throughout the mine. This mine was closed down in April, 1915, on account of a gob fire which was burning in the abandoned portion of the mine. The mine was sealed up until September, 1915, when it was reopened after the fire had apparently become extinguished.

Frank Kovaice. (Mine No. 333)

Mine Surveyor: Norman Fraser.
Location of Mine: Sec. 9, Tp. 8, Rge. 8, W. 4th M.
Area: 20 acres.
Method of Ventilation: Natural.

This mine is situated in a coulee about 27 miles southeast of Winnifred and is entered by means of two drifts. The seam is 30 ins. in thickness and lies at a depth of 70 ft. from the surface.

W. S. Hutchinson. (Mine No. 335)

Overman: James Bowie.
Mine Surveyor: James Hargreaves.
Location of Mine: Sec. 14, Tp. 29, Rge. 20, W. 4th M.
Method of Ventilation: Natural.

This mine is situated in Fox Coulee and is about two miles northeast of Drumheller. The mine is entered by means of a drift, the seam being 3 ft. in thickness. A shaft for ventilating purposes has been sunk to the coal seam a distance of 54 ft.

Thomas McLinley. (Mine No. 337)

Mine Surveyor: Norman Fraser.
Location of Mine: Sec. 36, Tp. 34, Rge. 22, W. 4th M.
Method of Ventilation: Natural.

The seam at this mine is 3 ft. 3 ins. in thickness and lies at a depth of 250 ft. from the surface. The mine is located about 12 miles southwest of Huxley, in a coulee on the west side of the Red Deer River.

The Dobell Coal Company of Tofield, Limited. (Mine No. 340)

Authorized Capital: \$100,000.00.
President: W. M. Dobell.
Vice-President: A. E. Doucet.
Directors: Wm. M. Macpherson, Lorenzo Evans, R. R. Dobell.
Secretary-Treasurer: F. O. Judge.
General Manager: T. R. Henderson.
Mine Surveyor: Thomas R. Henderson.
Head Office: 138 St. Peter Street, Quebec, P. Q.
Mine Office: Box 140, Tofield, Alberta.
Location of Mine: Sec. 35, Tp. 50, Rge. 19 W. 4th M.

This seam, which is 7 ft. in thickness and lying at a depth of 12 ft. from the surface, is operated by stripping the surface by means of steam shovels.

Louis Santoni. (Mine No. 341)

Overman: Louis Santoni.
Mine Surveyor: Norman Fraser.
Location of Mine: Sec. 5, Tp. 8, Rge. 8, W. 4th M.
Area: 20 acres.
Method of Ventilation: Natural.

This mine, which was formerly operated by Ferdinand Friedenberg, is situated about 30 miles southeast of Winnifred and is entered by means of a drift and an airshaft 25 ft. in depth. The seam is 3 ft. in thickness.

James C. Foote. (Mine No. 342)

Location of Mine: Sec. 7, Tp. 9, Rge. 8, W. 4th M.
Method of Ventilation: Natural.

This mine is located about 20 miles southeast of Winnifred and is entered by means of two drifts. The seam is 2 ft. 3 ins. in thickness and lies at a depth of 60 ft. from the surface. The mine was abandoned in November, 1915.

Charles F. Henry. (Mine No. 345)

Overman: David Hewitson.
Mine Surveyor: Norman Fraser.
Location of Mine: Sec. 6, Tp. 8, Rge. 10, W. 4th M.
Area: 20 acres.
Method of Ventilation: Natural.

This mine is located in a coulee, twenty miles southeast of Bow Island. The seam is 30 ins. in thickness and lies at a depth of 20 ft. from the surface.

Rosedale Coal and Clay Products Company, Limited. (Mine No. 346)

Authorized Capital: \$1,500,000.00.
President: William Georgeson.
Vice-President: James F. Moodie.
Directors: Dr. George R. Pirie, Wm. Carson, Mrs. Stirrett, H. H. Moore.
Secretary-Treasurer: William Carson.
Managing Director: J. F. Moodie.
Mine Manager: James Finlayson.

Mine Surveyor: Kenneth Moodie.
 Head Office: Calgary, Alberta.
 Mine Office: Rosedale, Alberta.
 Location of Mine: Sec. 28, Tp. 28, Rge. 19, W. 4th M.
 Area: 44,000 acres.
 Method of Ventilation: Natural.

This mine is located at Rosedale, on the Calgary-Saskatoon branch of the Canadian Northern Railway. The seam, which is 9 ft. in thickness, has a cover varying from 35 to 250 ft. over it. The mine is entered by means of two shafts, 35 ft. deep, the hoisting shaft being 9 ft. by 13 ft. and the airshaft 8 ft. square. A steel tippie equipped with Marcus screens is at present in course of erection. Safety lamps are used throughout the mine.

The Rosedeer Coal Mining Company. (Mine No. 347)

Authorized Capital: \$1,000,000.00.
 President: V. Raby.
 Vice-President: Frederick T. Gilroy.
 Directors: V. Raby, F. T. Gilroy, Charles E. Smith, L. A. Tupper, Alex. Robertson, A. E. St. Laureat, George V. Tupper.
 Secretary: L. A. Tupper.
 Treasurer: Charles S. Smith.
 General Manager: George V. Tupper.
 Mine Manager: David Gray.
 Examiners: John Russell, James Sinclair.
 Mine Surveyor: David Gray.
 Head Office: Saskatoon, Sask.
 Mine Office: Wayne, Alberta.
 Location of Mine: Sec. 7, Tp. 28, Rge. 19, W. 4th M.
 Area: 4,800 acres.
 Method of Ventilation: Natural.

This mine is situated at Wayne, on the Calgary-Saskatoon branch of the Canadian Northern Railway, and is entered by means of a slope 170 ft. long and driven on an inclination of 12 degrees.

The seam, which is 7 ft. in thickness, lies at a depth of 300 ft. from the surface. A tippie equipped with bar screens and capable of handling an output of 500 tons per day, has been installed. Safety lamps are used throughout the mine and all shots are fired by means of electric batteries.

John Niesner. (Mine No. 348)

Overman: Fred Larson.
 Mine Surveyor: James Hargreaves.
 Location of Mine: Sec. 23, Tp. 29, Rge. 20, W. 4th M.
 Method of Ventilation: Natural.

This mine is situated in Fox Coulee, about four miles northeast of Drumheller, and is entered by means of a drift. The seam is 4 ft. in thickness and lies at a depth of 120 ft. from the surface.

The Drumheller Land Company Ltd. (Mine No. 349)

Authorized Capital: \$10,000.00.
 President: Samuel Drumheller.
 Vice-President: D. M. Drumheller.
 Directors: Samuel Drumheller, D. M. Drumheller, J. L. Drumheller, P. C. Shine, A. Cooleridge.

Secretary-Treasurer: J. L. Drumheller.
 Mine Manager: James Darbyshire.
 Overman: James Darbyshire.
 Examiners: William Ashton, Edward Robinson.
 Engineer: Adam S. Gray.
 Mine Surveyor: James Darbyshire.
 Head Office: Spokane, Wash.
 Mine Office: Drumheller, Alberta.
 Location of Mine: Sec. 2, Tp. 29, Rge. 20, W. 4th M.
 Area: 1,540 acres.
 Method of Ventilation: Sirocco fan. (Reversible).

This mine is situated at Drumheller and is entered by means of a slope 240 ft. long, driven at an inclination of one in three. Only 4 ft. 6 ins. of the upper portion of the seam is being worked.

William Roberts, (Mine No. 353)

Overman: William Roberts.
 Location of Mine: Sec. 36, Tp. 6, Rge. 12, W. 4th M.
 Area: 20 acres.
 Method of Ventilation: Natural.

This mine is situated 25 miles south of Grassy Lake. The coal seam is 30 ins. in thickness and lies at a depth of 100 ft. from the surface.

Hand Hill Coal Company. (Mine No. 354)

Overman: A. F. Joberg.
 Mine Surveyor: Norman Fraser.
 Location of Mine: Sec. 21, Tp. 30, Rge. 17, W. 4th M.

This mine is situated in a coulee six miles southeast of Delia, on the Calgary-Saskatoon branch of the Canadian Northern Railway. It is entered by means of a drift and an airshaft which is 47 ft. deep. The seam is 4 ft. in thickness and lies at a depth of from 50 to 100 ft. from the surface.

Moses Brown. (Mine No. 356)

Location of Mine: Sec. 28, Tp. 12, Rge. 7, W. 4th M.
 Method of Ventilation: Natural.

This mine is located in a coulee 12 miles west of Medicine Hat, and is entered by means of two drifts. The coal seam is 5ft. 6 ins. in thickness with 6 inches of bone in the centre, and lies at a depth of 250 ft. from the surface. The coal is hoisted to the prairie level from the mine by means of an aerial tramway which operates a skip.

Robert A. Salisbury. (Mine No. 358)

Overman: Robert A. Salisbury.
 Mine Surveyor: Norman Fraser.
 Location of Mine: Sec. 22, Tp. 12, Rge. 10, W. 4th M.
 Area: 20 acres.
 Method of Ventilation: Natural.

This mine was formerly operated by W. H. Simanton and is situated in a coulee 15 miles northeast of Winnifred. The mine is

entered by means of a drift. The seam is 4 ft. 4 ins. in thickness with 6 ins. of bone on the top and lies at a depth of 120 ft. from the surface.

J. B. Schultz. (Mine No. 360)

Overman: J. A. Grenier.

Mine Surveyor: Norman Fraser.

Location of Mine: Sec. 2, Tp. 25, Rge. 22, W. 4th M.

Method of Ventilation: Natural.

This mine is situated at Standard. The coal seam is 4 ft. in thickness and lies at a depth of 50 ft. from the surface. The mine is entered by means of a slope 150 ft. long, driven on an inclination of 1 in 3.

Joseph Woolings. (Mine No. 361)

Overman: Joseph Woolings.

Mine Surveyor: Norman Fraser.

Location of Mine: Sec. 7, Tp. 22, Rge. 3, W. 5th M.

Area: 160 acres.

Method of Ventilation: Natural.

The mine is situated on the banks of Fish Creek, 25 miles southwest of Calgary. The seam is 6 ft. in thickness and pitching at an inclination of 45 degrees. The mine is entered by means of a shaft 18 ft. deep, from the bottom of which a slope is driven at the same inclination as the seam for a distance of 100 ft.

Richard Duell. (Mine No. 362)

Overman: Joseph Powers.

Mine Surveyor: Norman Fraser.

Location of Mine: Sec. 9, Tp. 18, Rge. 2, W. 5th M.

Method of Ventilation: Natural.

This mine is located in a coulee 27 miles west of High River and is entered by means of a drift. The seam, which is 10 ft. in thickness, is pitching at an inclination of 8 degrees.

Consumers' Co-Operative Company, Limited. (Mine No. 364)

Authorized Capital: \$100,000.00.

President: Robert E. Campbell, M.P.P.

Vice-President: James S. Wheeler.

Directors: H. P. Carver, C. C. Howard, A. G. Mackinnon, Philip J. Job.

Secretary-Treasurer: Philip J. Job.

Overman: A. Albertson.

Engineer: C. A. McCausland.

Mine Surveyor: Norman Fraser.

Head Office: 28 Elma Block, Calgary, Alberta.

Mine Office: Big Valley, Alberta.

Location of Mine: Sec. 1, Tp. 30, Rge. 20, W. 4th M.

Area: 1,300 acres.

Method of Ventilation: Natural, assisted by steam jet.

This mine is situated two miles north of Big Valley, on the Calgary-Edmonton branch of the Canadian Northern Railway. The mine is entered by two drifts, 5 ft. 9 ins. high by 7 ft. wide. A shaft

has also been sunk for the purposes of assisting the ventilation. The coal seam, which is 6 ft. 6 ins. in thickness, is lying at a depth of 200 ft. from the surface. Open lights are used throughout the mine.

Midland Collieries, Limited. (Mine No. 367)

Authorized Capital: \$300,000.00.
President: T. G. McMullen.
Directors: W. J. McDougall, W. G. Fraser, W. F. Jennison, H. G. Gould
Secretary: James MacMurray.
General Manager: S. L. McMullen.
Mine Manager: John Robertson.
Overman: E. Moore.
Examiners: William Harmison, H. Nelson.
Engineer: Walter Marvin.
Master Mechanic: Edward Ward.
Mine Surveyor: John Robertson.
Head Office: Truro, N. S.
Mine Office: Drumheller.
Location of Mine: Sec. 9, Tp. 29, Rge. 20, W. 4th M.
Area: 1,400 acres.
Method of Ventilation: Reversible fan.

This mine is working what is known as the No. 3 seam, and is entered by means of a slope driven across the measures for a distance of 400 ft., on an inclination of 19 degrees. The coal seam is 7 ft. in thickness and lies at a depth of 130 ft. from the surface.

Safety lamps of the Wolf type are used throughout the mine and all shots are fired by means of electric battery.

Dr. J. H. Duggan. (Mine No. 368)

Location of Mine: Sec. 4, Tp. 2, Rge. 6, W. 4th M.
Method of Ventilation: Natural.

This mine is located sixty miles southeast of Seven Persons. The seam, which is 4 ft. in thickness, is lying at a depth of 200 ft. from the surface. The mine is abandoned.

Stephen Schmidt. (Mine No. 370)

Location of Mine: Sec. 30, Tp. 7, Rge. 8, W. 4th M.
Area: 20 acres.
Method of Ventilation: Natural.

This mine is situated in a coulee 33 miles southeast of Winnifred and is entered by means of drifts. The seam is composed of 3 ft. of top coal, 1 ft. of bottom coal and 2 ft. of shale between.

Bathurst Mining Co. (Mine No. 372)

Location of Mine: Sec. 5, Tp. 10, Rge. 21, W. 4th M.
Area: 158 Acres.
Method of Ventilation: Natural.

This mine, which was operated on a small scale, has now been abandoned. The seam at this mine is 4 ft. 2 ins. in thickness and lies at a depth of 250 ft. from the surface.

T. A. Kane. (Mine No. 375)

Overman: John T. Hunter.
 Mine Surveyor: Norman Fraser.
 Location of Mine: Sec. 1, Tp. 34, Rge. 14, W. 4th M.
 Method of Ventilation: Natural.

This mine is situated near Garden Plain and is entered by means of two drifts. The coal seam is 4 ft. 8 ins. in thickness with a band of clay 8 ins. in thickness running through it about 10 ins. from the top. Open lights are used throughout the mine.

Mark Hancock. (Mine No. 377)

Overman: Mark Hancock.
 Mine Surveyor: Norman Fraser.
 Location of Mine: Sec. 25, Tp. 9, Rge. 13, W. 4th M.
 Area: 40 acres.
 Method of Ventilation: Natural.

This mine is situated $6\frac{1}{2}$ miles southeast of Grassy Lake and is entered by a slope driven on an inclination of 8 per cent. The coal seam is 4 ft. 1 in. in thickness with a band of bone in the centre 10 ins. in thickness.

John Donaghy. (Mine No. 380)

Overman: Thomas Cook.
 Mine Surveyor: Norman Fraser.
 Location of Mine: Sec. 29, Tp. 30, Rge. 17, W. 4th M.
 Method of Ventilation: Natural.

This mine is situated $4\frac{1}{2}$ miles southeast of Delia and is entered by a drift at the bottom of a coulee. The seam is 3 ft. 6 ins. in thickness and lies at a depth of 150 ft. from the surface.

Arthur Bembridge. (Mine No. 381)

Overman: Thomas Wilson.
 Mine Surveyor: James Hargreaves.
 Location of Mine: Secs. 6 and 7, Tp. 3, Rge. 11, W. 4th M.
 Area: 20 acres.
 Method of Ventilation: Natural.

This mine is situated 24 miles northeast of Milk River and is entered by means of a drift. The seam of coal is 2 ft. 8 ins. in thickness and lies at a depth of 60 ft. from the surface.

The Knee Hill Valley Coal Company, Limited. (Mine No. 384)

Authorized Capital: \$300,000.00.
 President: C. F. Smith.
 Vice-President: John Hammill.
 Directors: A. H. Bartholomew, A. E. de Lorimer, F. W. Fisher, G. N. Ducharme, Alex. McCullough.
 Secretary-Treasurer: F. W. Bayliss.
 Managing Director: Alex. McCullough.
 Overman: J. J. Thomas.
 Engineer: Martin Potter.
 Mine Surveyor: Norman Fraser.
 Head Office: Three Hills, Alberta.
 Mine Office: Three Hills, Alberta.

Location of Mine: Sec. 36, Tp. 32, Rge. 23, W. 4th M.
Area: 920 acres.
Method of Ventilation: Forcing fan.

This mine is situated near Three Hills and is entered by means of two shafts, one of which is 9 ft. wide by 12 ft. long. The coal seam is 5 ft. in thickness and lies at a depth of 160 ft. from the surface. Open lights are used throughout the mine.

Cameron Brothers. (Mine No. 386)

Location of Mine: Sec. 17, Tp. 55, Rge. 24, W. 4th M.

This mine is now abandoned and no work has been done during the year 1915.

Cable Brothers. (Mine No. 387)

Overman: A. E. H. Cable.
Mine Surveyor: Norman Fraser.
Location of Mine: Sec. 28, Tp. 39, Rge. 16, W. 4th M.
Area: 80 acres.
Method of Ventilation: Natural.

This mine is situated 12 miles northwest of Halkirk and is entered by means of a short slope. The seam is 4 ft. 6 ins. in thickness and lies at a depth of 24 ft. from the surface.

Saunders Creek Coal Company, Limited. (Mine No. 388)

Authorized Capital: \$200,000.00.
President: James Wright.
Directors: James Wright, P. McDermott, Thomas Rees, John Malcolm and Ed. Fortner.
Secretary-Treasurer: John Malcolm.
Managing Director: Edward Fortner.
Overman: Edward Fortner.
Mine Surveyor: Edward Fortner.
Head Office: Rocky Mountain House, Alberta.
Mine Office: * Rocky Mountain House, Alberta.
Location of Mine: Mile 155 Brazeau Branch C.N. R., Tp. 40-13-w5.
Area: 1,260 acres.
Method of Ventilation: Natural.

This mine is situated 40 miles west of Rocky Mountain House on the Brazeau branch of the Canadian Northern Railway. Two seams have been opened out, only the lower seam being worked at the present time. The upper seam, which is 6 ft. in thickness, lies at an elevation of 180 ft. above the railroad tracks. The lower seam averages 5 ft. in thickness with 12 ins. of clay above it; this seam lies at a depth of from 50 to 300 ft. from the surface. The mine is entered by means of two drifts 6 ft. high by 8 ft. wide. An airshaft 4 ft. square has been sunk.

Frank Smith. (Mine No. 389)

Overman: Frank Smith.
Mine Surveyor: Norman Fraser.
Location of Mine: Sec. 8, Tp. 55, Rge. 24, W. 4th M.
Area: 10 acres.
Method of Ventilation: Natural.

This mine is entered by means of a drift. The seam, which is 5 ft. 8 ins. in thickness, lies at a depth of 48 ft. from the surface. Open lights are used throughout the mine.

W. S. Abel. (Mine No. 390)

Overman: Steve Bahlin.

Mine Surveyor: James Hargreaves.

Location of Mine: Sec. 1, Tp. 3, Rge. 12, W. 4th M.

Area: 20 acres.

Method of Ventilation: Natural.

This mine is located 22 miles northeast of Milk River and is entered by means of a drift. The coal seam is 5 ft. in thickness with a band of rock 20 ins. in thickness near the centre.

Block Coal Collieries. (Mine No. 391)

Mine Manager: Emile Leblanc.

Engineer: A. Tubbs.

Mine Surveyor: Emile Leblanc.

Location of Mine: Sec. 19, Tp. 10, Rge. 16, W. 4th M.

Area: 380 acres.

Method of Ventilation: Natural.

The coal seam is 3 ft. 6 ins. in thickness and is worked on the long wall method, a face 600 ft. in length having been opened out. The coal is undercut by means of electrical coal cutting machines. Open lights are used throughout the mine.

Michael Mollov. (Mine No. 395)

Overman: Edward Jones.

Mine Surveyor: C. C. Richards.

Location of Mine: Sec. 27, Tp. 10, Rge. 21, W. 4th M.

Area: 20 acres.

Method of Ventilation: Natural.

The coal seam is 3 ft. 2 ins. in thickness and is operated on a small scale and only supplies local demand.

West Canadian Collieries, Limited. (Mine No. 396)
(Greenhill Mine, Blairmore.)

Mine Manager: Raoul Green.

Overman: W. Pearson.

Examiners: J. Garrett, S. Mason, W. McVey.

Engineer: L. P. Robert.

Master Mechanic: J. McPhail.

Mine Surveyor: L. P. Robert.

Head Office: London, England.

Mine Office: Blairmore, Alberta.

Location of Mine: Sec. 11, Tp. 8, Rge. 4, W. 5th M.

Method of Ventilation: Murphy fan.

This seam varies in thickness from 10 to 15 ft. and is pitching at an inclination of 45 degrees. It is developed on the angle chute system. The mine is ventilated by an electrically driven fan of the Murphy type which produces about 15,000 cubic ft. of air per minute with an average water gauge of .35 ins. Safety lamps of the Wolf type are used throughout and A. 1 Monobel is used for blasting coal.

William H. Duggan. (Mine No. 397)

Mine Manager: William H. Duggan.
Mine Surveyor: William H. Duggan.
Head Office: Rooms 106 & 107 Hart Block, Edmonton.
Mine Office: Nampao, Alberta.
Location of Mine: Sec. 8, Tp. 55, Rge. 24, W. 4th M.
Area: 60 acres.
Method of Ventilation: Natural.

This mine was formerly operated by the Sturgeon Coal Co., Ltd., and is entered by means of a drift. The coal seam, which is 4 ft. 10 ins. in thickness, is lying at a depth of 80 ft. from the surface. A shaft 6 ft. by 14 ft. has been sunk on the property but has not yet been put into operation.

Thomas McCafferty. (Mine No. 398)

Location of Mine: Sec. 18, Tp. 33, Rge. 13, W. 4th M.
Method of Ventilation: Natural.

The seam at this mine is 3 ft. 6 ins. in thickness and is lying at a depth of 17 ft. from the surface. The mine is now abandoned.

Mike Koffler. (Mine No. 399)

Location of Mine: Sec. 13, Tp. 7, Rge. 5, W. 4th M.

This mine is situated in a coulee about 35 miles southeast of Winnifred and is worked by means of stripping the surface. Two seams of coal have been proved on the property, the upper being 10 ins. in thickness while the lower is 20 ins. in thickness. A band of shale 30 ins. in thickness is lying between these two seams. The top seam is lying at a depth of 20 ft. from the surface.

John P. Peairs. (Mine No. 400)

Overman: John Pearly Peairs.
Mine Surveyor: Norman Fraser.
Location of Mine: Sec. 21, Tp. 12, Rge. 10, W. 4th M.
Area: 20 acres.
Method of Ventilation: Natural.

This mine, which was formerly operated by Robert A. Salisbury, is situated in a coulee 14 miles northeast of Winnifred and is entered by means of a drift. The coal seam is 4 ft. in thickness and lies at a depth of 130 ft. from the surface.

Red Deer Valley Coal Company, Limited. (Mine No. 402)

Authorized Capital: \$500,000.00.
President: Slocum Howland.
Vice-President: Warren H. Lyon.
Secretary: Charles W. Holliday.
Treasurer: Slocum Howland.
Mine Manager: D. A. Macaulay.
Overman: Edward Bridge.
Engineer: Fred Orr.
Mine Surveyor: D. A. Macaulay.
Head Office: 606 Grain Exchange, Calgary, Alberta.

Mine Office: Drumheller. Alberta.

Location of Mine: Sec. 7, Tp. 29, Rge. 20, W. 4th M.

Area: 3,500 acres.

Method of Ventilation: Exhausting fan.

This mine is situated $3\frac{1}{2}$ miles west of Drumheller and is connected to the Canadian Northern Railway by means of a spur track $1\frac{1}{2}$ miles in length. The coal seam, which is 10 ft. in thickness, has a clay band near the centre. Safety lamps are used throughout the mine. Monobel powder fired by electric battery is used.

Zarth & Embury. (Mine No. 403)

Mine Surveyor: John Robertson.

Location of Mine: Sec. 22, Tp. 29, Rge. 20, W. 4th M.

Method of Ventilation: Natural.

This mine is situated in Fox Coulee, $4\frac{1}{2}$ miles east of Drumheller. The seam is 4 ft. in thickness and lies at a depth of 75 ft. from the surface.

S. Bergman. (Mine No. 404)

Location of Mine: Sec. 18, Tp. 39, Rge. 15, W. 4th M.

This mine is now abandoned, no work having been done during the year 1915.

Wm. McIntyre. (Mine No. 405)

Location of Mine: Sec. 24, Tp. 3, Rge. 22, W. 4th M.

Method of Ventilation: Natural.

The seam at this mine is 6 ft. in thickness, 5 ft. of which is being worked. Open lights are used throughout the mine.

Robert Jaynes. (Mine No. 407)

Location of Mine: Sec. 29, Tp. 2, Rge. 15, W. 4th M.

Method of Ventilation: Natural.

The seam at this mine is 4 ft. 3 ins. in thickness. No work of any importance has been done at this mine during the year and it is now abandoned.

John H. Wall. (Mine No. 409)

Location of Mine: Sec. 17, Tp. 7, Rge. 21, W. 4th M.

The seam at this mine is 3 ft. in thickness and lies at a depth of 100 ft. from the surface. The mine has not been in operation during the year and is now abandoned.

New Era Coal Company. (Mine No. 412)

Location of Mine: Sec. 14, Tp. 53, Rge. 44, W. 5th M.

This mine is now abandoned, no work having been done during the year.

Page and Dayton. (Mine No. 413)

Location of Mine: Sec. 29, Tp. 20, Rge. 20, W. 4th M.

The seam at this mine is 3 ft. in thickness and lies at a depth of 65 ft. from the surface. The mine is now abandoned.

H. McKenzie. (Mine No. 415)

Mine Surveyor: Norman Fraser.

Location of Mine: Sec. 5, Tp. 29, Rge. 14, W. 4th M.

This mine is situated in a coulee 15 miles south of Hanna and is operated by stripping the surface. The seam is 30 ins. in thickness and lies at a depth of 10 ft. from the surface.

P. Burns Coal Company, Limited. (Mine No. 416)

Location of Mine: Tps. 18/19, Rges. 6/7, W. 5th M.

Only prospect work has been done at this mine and operations have ceased and the mine abandoned until railway facilities are available.

George Davies. (Mine No. 417)

Overman: George Davies.

Mine Surveyor: Norman Fraser.

Location of Mine: Sec. 26, Tp. 37, Rge. 14, W. 4th M.

Area: 80 acres.

Method of Ventilation: Natural.

This mine is situated 1 mile east of Castor and is entered by means of a drift. The seam is 7 ft. in thickness and lies at a depth of from 15 to 30 ft. from the surface.

The Wabamun Power and Coal Company. (Mine No. 419)

Authorized Capital: \$500,000.00.

President: E. W. Day.

Vice-President: George Harcourt.

Directors: W. C. Dunn, E. W. Day, George Harcourt, J. A. Shaw, W. Ramsay, J. W. Bell and W. Fowler.

Secretary-Treasurer: W. C. Dunn.

Overman: A. E. Powell.

Head Office: 324 Tegler Building, Edmonton.

Mine Office: Wabamun, Alberta.

Location of Mine: Sec. 9, Tp. 53, Rge. 4, W. 5th M.

Method of Ventilation: Natural.

The coal seam, which is 20 ft. in thickness, is lying at a depth of 51 ft. from the surface. An entry 9 ft. wide by 7 ft. high has been driven for a distance of 500 ft. An airshaft 6 ft. by 4 ft. has also been sunk.

Clarke and Davis. (Mine No. 420)

Location of Mine: Sec. 8, Tp. 55, Rge. 24, W. 4th M.

This mine has not been operating during the year and is now abandoned.

Daniel T. Sheets. (Mine No. 421)

Location of Mine: Sec. 10, Tp. 3, Rge. 11, W. 4th M.
 Method of Ventilation: Natural.

This mine is situated 27 miles northeast of Milk River and is entered by means of a slope. The seam is 4 ft. 8 ins. in thickness with 6 ins. of bone in the centre and is lying at a depth of 90 ft. from the surface. The mine is now abandoned.

Sterling Coal Company, Limited. (Mine No. 422)

Authorized Capital: \$100,000.00.
 President: G. G. Jewell.
 Vice-President: D. Van Toll.
 Directors: G. G. Jewell and J. B. Anderson.
 Secretary-Treasurer: J. B. Anderson.
 General Manager: G. G. Jewell.
 Mine Manager and Overman: James McCulloch.
 Examiner: John McGladrie.
 Engineer: James McConnell.
 Mine Surveyor: James McCulloch.
 Head Office: Drumheller, Alberta.
 Mine Office: Drumheller, Alberta.
 Location of Mine: Sec. 9, Tp. 29, Rge. 20, W. 4th M.
 Area: 440 acres.
 Method of Ventilation: Exhausting fan.

This mine is situated $2\frac{1}{2}$ miles west of Drumheller and is connected to the Canadian Northern Railway by a spur track one-half mile in length. The mine is entered by two shafts, one of which is 9 ft. wide by 12 ft. long and the other 5 ft. wide by 7 ft. long. The coal seam is 6 ft. 6 ins. in thickness and lies at a depth of 150 ft. from the surface. Safety lamps are used throughout the mine.

Loiselle & Heinke. (Mine No. 423)

Mine Surveyor: James Crowder.
 Location of Mine: Sec. 22, Tp. 33, Rge. 22, W. 4th M.
 Method of Ventilation: Natural.

This mine is situated $4\frac{1}{2}$ miles northeast of Trochu, on the Calgary-Edmonton branch of the Grand Trunk Pacific Railway, and is entered by means of a slope 64 ft. in length. The seam is 5 ft. in thickness and lies at a depth of 70 ft. from the surface.

Mullen Coal Company. (Mine No. 424)

Location of Mine: Sec. 30, Tp. 52, Rge. 4, W. 5th M.

The coal seam at this mine is 20 ft. in thickness and lies at a depth of 20 ft. from the surface. It is worked by stripping the surface. The output is conveyed across Lake Wabamun where it is loaded into railway cars at Fallis.

William Halbert. (Mine No. 426)

Overman: William Halbert.
 Location of Mine: Sec. 12, Tp. 33, Rge. 23, W. 4th M.

This mine was formerly operated by Robert Halbert, Jr., and is situated near Trochu. Very little work has been done during the past year.

Benjamin Hronek. (Mine No. 421)

Overman: Benjamin Hronek.

Mine Surveyor: Norman Fraser.

Location of Mine: Sec. 18, Tp. 39, Rge. 15, W. 4th M.

Area: 30 acres.

Method of Ventilation: Natural.

This mine is situated in a coulee $4\frac{1}{2}$ miles north of Halkirk. The seam is 5 ft. 10 ins. in thickness and lies at a depth of 74 ft. from the surface.

Wilcox Fiss & Company. (Mine No. 428)

Location of Mine: Sec. 8, Tp. 55, Rge. 24, W. 4th M.

Very little work has been done at this mine during the year, and the mine is now abandoned.

McKenzie & Mann. (Mine No. 429)

Overman: W. K. Munro.

Location of Mine: Sec. 15, Tp. 50, Rge. 27, W. 5th M.

Method of Ventilation: Natural.

The seam at this mine is 11 ft. in thickness and is entered by means of a drift. The output is hauled by teams from the mine to the main line of the Canadian Northern Railway, a distance of about $1\frac{1}{4}$ miles.

Hugh Weaver. (Mine No. 430)

Overman: Hugh Weaver.

Location of Mine: Sec. 18, Tp. 44, Rge. 19, W. 4th M.

Method of Ventilation: Natural.

This mine is situated near Edberg and is entered by means of a drift. The coal seam is 3 ft. 3 ins. in thickness and is lying at a depth of 100 ft. from the surface. The mine is now abandoned.

James Ashmore. (Mine No. 432)

Location of Mine: Sec. 24, Tp. 16, Rge. 22, W. 4th M.

No work has been done at this mine during the year and the mine is now abandoned.

McCulloch Brothers. (Mine No. 433)

Overman: Patrick McCulloch.

Mine Surveyor: Norman Fraser.

Location of Mine: Sec. 2, Tp. 20, Rge. 3, W. 5th M.

Method of Ventilation: Exhausting fan.

This mine is situated near Lineham and is entered by means of a short slope driven into the bank of Sheep Creek. The seam, which is 6 ft. in thickness, is pitching at an inclination of 45 degrees.

Premier Coal Company. (Mine No. 434)

Overman: Bernard Nugent.
Mine Surveyor: E. S. F. Huntrods.
Location of Mine: Sec. 4, Tp. 10, Rge. 17, W. 4th M.
Method of Ventilation: Natural.

One seam of coal, which is 3 ft. in thickness, is being operated. Open lights are used throughout the mine.

Star Coal Mines Limited. (Mine No. 436)

Authorized Capital: \$50,000.00.
President: John R. Brodie.
Vice-President: J. N. Murray.
Directors: J. R. Brodie, J. N. Murray, W. S. Henderson.
Secretary-Treasurer: W. S. Henderson.
Mine Manager: Nathaniel Howells.
Engineers: William Sloan and David McIvor.
Head Office: Rosedale, Alberta.
Mine Office: Rosedale, Alberta.
Location of Mine: Sec. 28, Tp. 23, Rge. 19, W. 4th M.
Method of Ventilation: Reversible fan.

This mine is situated on the Red Deer River, one mile from Rosedale. The mine is entered by means of a drift about 30 ft. above the level of the river. The seam is 5 ft. 8 ins. in thickness. The mine cars are hauled across the river from the mine to the tippie by means of an aerial tramway. Open lights are used throughout the mine.

William H. Hodson. (Mine No. 437)

Location of Mine: Sec. 23, Tp. 18, Rge. 21, W. 4th M.

Very little work has been done at this mine during the year and the mine is now abandoned.

Premier Coal Company, Limited. (Mine No. 439)

Authorized Capital: \$50,000.00.
President: Archibald E. Wilson.
Vice-President: John K. Miller.
Directors: William D. Gordon, Percy W. Jopp.
Secretary-Treasurer: O. H. Patrick.
General Manager: A. E. Wilson.
Mine Manager: James Hargreaves.
Overman: John K. Miller.
Mine Surveyor: James Hargreaves.
Head Office: 807 Centre Street, Calgary, Alberta.
Mine Office: Drumheller, Alberta.
Location of Mine: Sec. 10, Tp. 29, Rge. 20, W. 4th M.
Area: 113 acres.
Method of Ventilation: Sheldon fan.

This mine is entered by means of a slope 65 ft. in length and driven on an inclination of 15 degrees. The seam is 5 ft. in thickness and is opened out on the double entry system.

Herschel Kaye. (Mine No. 440)

Overman: Herschel Kaye.

Location of Mine: Sec. 11, Tp. 10, Rge. 2, W. 5th M.

Method of Ventilation: Natural.

This mine is operated on a small scale and is entered by means of a slope. Very little work has been done during the year.

Carl Linder. (Mine No. 441)

Overman: George Bergmann.

Mine Surveyor: Norman Fraser.

Location of Mine: Sec. 18, Tp. 39, Rge. 15, W. 4th M.

Method of Ventilation: Natural.

This mine is situated five miles north of Halkirk. The seam is 5 ft. in thickness and is lying at a depth of 80 ft. from the surface. The mine is entered by means of a drift.

W. & G. Williscroft. (Mine No. 442)

Location of Mine: Sec. 3, Tp. 55, Rge. 24, W. 4th M.

This mine, which was operating on a small scale, is now abandoned.

William John Anderson. (Mine No. 443)

Overman: Peter Lohmaier.

Mine Surveyor: Norman Fraser.

Location of Mine: Sec. 12, Tp. 29, Rge. 13, W. 4th M.

Method of Ventilation: Natural.

This mine is situated 14 miles southwest of Richdale and is entered by means of a slope driven on an inclination of 11 degrees. The seam is 8 ft. in thickness and is lying at a depth of 28 ft. from the surface.

Anthony Jackson. (Mine No. 444)

Overman: Anthony Jackson.

Mine Surveyor: James Crowder.

Location of Mine: Sec. 14, Tp. 31, Rge. 24, W. 4th M.

Method of Ventilation: Natural.

This mine is situated 7 miles southwest of Three Hills. The seam is 3 ft. 8 ins. in thickness and lies at a depth of 60 ft. from the surface.

Charles S. Wilson. (Mine No. 445)

Overman: Frank Doughty.

Location of Mine: Sec. 14, Tp. 31, Rge. 24, W. 4th M.

Method of Ventilation: Natural.

This mine is situated 7 miles southwest of Three Hills and is entered by means of two drifts. The seam is 3 ft. 8 ins. in thickness and lies at a depth of 60 ft. from the surface.

Louis Martin. (Mine No. 447)

Location of Mine: Sec. 28, Tp. 40, Rge. 15, W. 4th M.

This mine is abandoned, no work having been done during the year.

Walter Wallwork. (Mine No. 448)

Overman: Henry Weatherly.

Mine Surveyor: Norman Fraser.

Location of Mine: Sec. 36, Tp. 11, Rge. 11, W. 4th M.

Method of Ventilation: Natural.

This mine is situated six miles north of Bow Island and is entered by means of two drifts. The seam is 3 ft. in thickness and lies at a depth of 150 ft. from the surface.

J. R. Turney. (Mine No. 449)

Overman: W. R. Collard.

Mine Surveyor: Norman Fraser.

Location of Mine: Sec. 36, Tp. 40, Rge. 16, W. 4th M.

Method of Ventilation: Natural.

This mine is situated on the north bank of the Battle River, 15 miles north of Halkirk, and is entered by means of a drift. The seam is 9 ft. in thickness and lies at a depth of 37 ft. from the surface.

William Robinson. (Mine No. 450)

Location of Mine: Sec. 32, Tp. 40, Rge. 15, W. 4th-M.

Very little work has been done at this mine during the year and the mine is now abandoned.

Louis Bergren. (Mine No. 451)

Mine Surveyor: Norman Fraser.

Location of Mine: Sec. 11, Tp. 39, Rge. 16, W. 4th M.

Method of Ventilation: Natural.

This mine is situated six miles northwest of Halkirk and is entered by means of two drifts. The seam is 4 ft. in thickness and lies at a depth of 21 ft. from the surface.

Thomas J. Sparrow. (Mine No. 452)

Overman: John Davis.

Mine Surveyor: G. A. Lavoie.

Location of Mine: Sec. 17, Tp. 5, Rge. 1, W. 5th M.

Area: 160 acres.

Method of Ventilation: Natural.

The coal seam at this mine is 7 ft. in thickness and is pitching at an angle of 10 degrees. Open lights are used throughout the mine.

John Davis. (Mine No. 453)

Location of Mine: Sec. 27, Tp. 5, Rge. 29, W. 4th M.

This mine did not produce any coal during the year; a tunnel was driven for a distance of about 250 ft., but as no coal was found the mine was abandoned.

Edward Berford. (Mine No. 454)

Location of Mine: Sec. 9, Tp. 4, Rge. 16, W. 4th M.

Method of Ventilation: Natural.

The coal seam at this mine is 4 ft. in thickness, 3 ft. of which has been worked. The mine is now abandoned.

Daniel Fitzpatrick. (Mine No. 455)

Location of Mine: Sec. 3, Tp. 4, Rge. 28, W. 4th M.

Area: 60 acres.

Method of Ventilation: Natural.

The coal seam is 3 ft. in thickness and is pitching at an inclination of 30 degrees. The mine is entered by means of a slope and open lights are used throughout.

Edmond J. Brooks. (Mine No. 456)

Location of Mine: Sec. 13, Tp. 28, Rge. 4, W. 4th M.

Method of Ventilation: Natural.

This mine was abandoned at the beginning of the year and has not been in operation since. The seam is 2 ft. 6 ins. in thickness and is pitching at an inclination of 40 degrees.

Fred Gardner. (Mine No. 459)

Location of Mine: Sec. 15, Tp. 30, Rge. 23, W. 4th M.

This mine, which was operated on a very small scale, is now abandoned.

F. Clements. (Mine No. 460)

Mine Surveyor: Norman Fraser.

Location of Mine: Sec. 12, Tp. 23, Rge. 15, W. 4th M.

Method of Ventilation: Natural.

The seam, which is 3 ft. 6 ins. in thickness, is lying at a depth of 150 ft. from the surface. The mine is situated on the west bank of the Red Deer River, about 25 miles northwest of Brooks.

T. Edwin Smith. (Mine No. 461)

Overman: T. E. Smith.

Mine Surveyor: Norman Fraser.

Location of Mine: Sec. 28, Tp. 15, Rge. 21, W. 4th M.

Area: 20 acres.

Method of Ventilation: Natural.

This mine is situated in a coulee, 27 miles northeast of Champion, and is entered by means of a drift. The seam which is 4 ft. 2 ins. in thickness, has 12 inches of bone in the centre and lies at a depth of 36 ft. from the surface.

James Jeffery. (Mine No. 462)

Location of Mine: Sec. 32, Tp. 10, Rge. 2, W. 5th M.

No work has been done on this property for some considerable time and the mine is now abandoned.

Wilson Dennis. (Mine No. 463)

Location of Mine: Sec. 31, Tp. 10, Rge. 2, W. 5th M.

The seam at this mine is 3 ft. in thickness and is pitching at an inclination of 50 degrees. Very little work has been done on the property during the year and the mine is now abandoned.

B. T. Brooks. (Mine No. 464)

Overman: B. T. Brooks.

Mine Surveyor: John Robertson.

Location of Mine: Sec. 23, Tp. 29, Rge. 20, W. 4th M.

Method of Ventilation: Natural.

This mine is situated in Fox Coulee, about $3\frac{1}{2}$ miles northeast of Drumbheller, and is entered by means of a drift. The seam, which is composed of 18 ins. of top coal and 32 ins. of bottom coal, with 18 ins. of bone in between, is lying at a depth of 45 ft. from the surface.

Luke Raisbeck (Mine No. 465)

Overman: Luke Raisbeck.

Mine Surveyor: Norman Fraser.

Location of Mine: Sec. 9, Tp. 10, Rge. 13, W. 4th M.

Method of Ventilation: Natural.

This mine is situated $1\frac{1}{2}$ miles south of Grassy Lake and is entered by means of a drift. The seam, which is 30 ins. in thickness, lies at a depth of 30 ft. from the surface.

Clare Moore. (Mine No. 466)

Location of Mine: Sec. 15, Tp. 17, Rge. 17, W. 4th M.

Very little work has been done on this property during the year and the mine is now abandoned.

Lancaster & Willan. (Mine No. 467)

Location of Mine: Sec. 29, Tp. 46, Rge. 19, W. 4th M.

This mine has not been in operation since the beginning of the year and is now abandoned.

McFadden & Farnell. (Mine No. 468)

Location of Mine: One mile north of Big Valley.

This mine has not been in operation since August, 1915. The mine is entered by means of a slope, the seam being 3 ft. 6 ins. in thickness, only 1 ft. of which is saleable.

R. A. Ross. (Mine No. 469)

Location of Mine: Sec. 34, Tp. 34, Rge. 21, W. 4th M.
Method of Ventilation: Natural.

This mine is situated on the banks of the Red Deer River, 12 miles southwest of Big Valley, and is entered by means of drifts. The seam, which is 3 ft. 6 ins. in thickness, is lying at a depth of 70 ft. from the surface. The mine is now abandoned.

A. F. Joberg. (Mine No. 470)

Location of Mine: Sec. 21, Tp. 30, Rge. 20, W. 4th M.

Very little work has been done on this property during the year and the mine is now abandoned.

Clyde M. Wooden. (Mine No. 471)

Overman: Clyde M. Wooden.
Mine Surveyor: Norman Fraser.
Location of Mine: Sec. 18, Tp. 34, Rge. 21, W. 4th M.
Method of Ventilation: Natural.

This mine is situated in a coulee seven miles west of Scollard. The seam is 5 ft. 6 ins. in thickness and lies at a depth of 50 ft. from the surface. The mine is operated on a very small scale and supplies local demand only.

M. Hildegand. (Mine No. 472)

Location of Mine: Sec. 28, Tp. 31, Rge. 21, W. 4th M.

This mine is situated on the west bank of the Red Deer River, 12 miles northwest of Morrin. The seam is 2 ft. in thickness and lies at a depth of 8 ft. from the surface. The coal is worked by stripping off the surface after which it is loaded into wagons.

W. R. Cook. (Mine No. 473)

Location of Mine: Sec. 28, Tp. 31, Rge. 21, W. 4th M.

This mine is situated on the west bank of the Red Deer River, 12 miles northwest of Morrin. The seam, which is 2 ft. in thickness, is lying at a depth of 8 ft. from the surface and is worked by stripping the surface.

Armour & Stauffer. (Mine No. 474)

Location of Mine: Sec. 28, Tp. 31, Rge. 21, W. 4th M.

This mine is also situated about 12 miles northwest of Morrin and the seam, which is 2 ft. in thickness, is worked by stripping the surface, after which the coal is loaded into wagons.

George Aune. (Mine No. 475)

Location of Mine: Sec. 21, Tp. 31, Rge. 21, W. 4th M.

The seam at this mine lies at a depth of 8 ft. from the surface and is about 2 ft. in thickness. It is worked by stripping the surface.

H. McNaughton. (Mine No. 476)

No work has been done on this property during the year.

George William Halliday. (Mine No. 477)

Overman: G. W. Halliday.

Mine Surveyor: Norman Fraser.

Location of Mine: Sec. 28, Tp. 30, Rge. 17, W. 4th M.

Method of Ventilation: Natural.

The coal seam at this mine is 3 ft. 6 ins. in thickness and lies at a depth of 33 ft. from the surface. The mine is entered by means of a drift and an airshaft 33 ft. in depth.

Hugh A. Mason. (Mine No. 478)

Mine Surveyor: Norman Fraser.

Location of Mine: Sec. 13, Tp. 30, Rge. 17, W. 4th M.

Method of Ventilation: Natural.

The seam at this mine is 3 ft. 8 ins. in thickness and lies at a depth of 60 ft. from the surface. The mine is situated 12 miles southeast of Delia and is entered by means of drifts.

Edward Royal. (Mine No. 479)

Overman: Thomas Briggs.

Mine Surveyor: Norman Fraser.

Location of Mine: Sec. 12, Tp. 31, Rge. 17, W. 4th M.

Method of Ventilation: Natural.

The coal seam at this mine is 4 ft. in thickness and is entered by means of two shafts 47 ft. in depth.

Daniel Klump. (Mine No. 480)

Location of Mine: Sec. 27, Tp. 30, Rge. 17, W. 4th M.

Method of Ventilation: Natural.

This mine is situated in the Hand Hills, ten miles southeast of Delia. The seam is 3 ft. in thickness and lies at depths varying from 15 to 120 ft.

Edward Bertford. (Mine No. 481)

Location of Mine: Sec. 16, Tp. 4, Rge. 16, W. 4th M.
Method of Ventilation: Natural.

The seam at this mine is 6 ft. in thickness, although only 3 ft. of it is saleable. Practically no work has been done at this mine since June and the mine is now abandoned.

John Krozier. (Mine No. 484)

Overman: John Krozier.
Mine Surveyor: Norman Fraser.
Location of Mine: Sec. 7, Tp. 23, Rge. 14, W. 4th M.
Method of Ventilation: Natural.

The seam at this mine is 3 ft. 6 ins. in thickness and lies at a depth of 150 ft. from the surface. The mine is situated on the east bank of the Red Deer River, 25 miles north of Brooks.

Black Diamond Oil Fields. (Mine No. 485)

Authorized Capital: \$750,000.00.
President: G. E. Buck.
Directors: G. E. Buck, J. A. Campbell, J. L. Earl, E. H. Crandell.
Secretary-Treasurer: J. L. Earl.
General Manager: G. E. Buck.
Head Office: 807 First Street East, Calgary, Alberta.
Mine Office: Lineham, Alberta.
Location of Mine: Sec. 29, Tp. 19, Rge. 4, W. 5th M.

The seam at this mine is 15 ft. in thickness and is pitching at an inclination of 25 degrees. The mine is situated on Sheep Creek, about 30 miles southwest of Okotoks, and was worked for the purpose of supplying coal for well drilling.

C. E. Brown. (Mine No. 486)

Overman: J. S. Ward.
Mine Surveyor: Norman Fraser.
Location of Mine: Sec. 29, Tp. 32, Rge. 13, W. 4th M.

This is a stripping proposition, situated in a coulee 11 miles northeast of Hanna. The coal seam is 27 ins. in thickness and lies at a depth of 7 ft. 6 ins. from the surface.

Fred Giedd. (Mine No. 487)

Location of Mine: Sec. 3, Tp. 33, Rge. 16, W. 4th M.

Very little work has been done on this property during the year and the mine was abandoned in August.

Zehner & Unsworth. (Mine No. 488)

Overman: Robert Unsworth.

Location of Mine: Sec. 6, Tp. 33, Rge. 13, W. 4th M.

Method of Ventilation: Natural.

This mine is situated 16 miles northeast of Hanna and is entered by means of a slope driven on a 12 per cent. grade. The seam is 3 ft. 6 ins. in thickness and lies at a depth of 20 ft. from the surface.

John Murray. (Mine No. 489)

Location of Mine: Sec. 9, Tp. 10, Rge. 13, W. 4th. M.

This mine was only operating on a very small scale and is now abandoned.

I. Kenneth Bryanton. (Mine No. 490)

Mine Surveyor: Norman Fraser.

Location of Mine: Sec. 18, Tp. 33, Rge. 13, W. 4th M.

This is a stripping proposition, located 19 miles northeast of Hanna. The coal seam is 2 ft. 6 ins. in thickness and lies at a depth of 10 ft. from the surface.

Tolton & Sinclair. (Mine No. 491)

Overman: George Luck.

Mine Surveyor: Norman Fraser.

Location of Mine: Sec. 18, Tp. 29, Rge. 14, W. 4th M.

Method of Ventilation: Natural.

This mine is situated 11 miles south of Hanna and is entered by means of a drift. The seam is 3 ft. 2 ins. in thickness and lies at a depth of 33 ft. from the surface.

Donald Cattenach, (Mine No. 492)

Location of Mine: Sec. 6, Tp. 34, Rge. 13, W. 4th M.

This mine is situated near Garden Plain and has not been in operation for some time.

Irving Smithson. (Mine No. 494)

Location of Mine: Sec. 20, Tp. 37, Rge. 15, W. 4th M.

This is a stripping proposition and is located seven miles south-east of Halkirk. The seam is 32 inches in thickness with 2 ins. of clay in the centre. The cover varies from 2 to 8 ft. in thickness.

Ole Thompson. (Mine No. 495)

Location of Mine: Sec. 12, Tp. 36, Rge. 22, W. 4th M.

This mine is situated 10 miles southeast of Lousana, on the Calgary-Saskatoon branch of the Grand Trunk Pacific Railway. The mine is operated on a small scale for the purpose of supplying local demand. Natural ventilation is used.

Bert A. Kirkeby (Mine No. 496)

Overman: George W. Schofield.

Mine Surveyor: Norman Fraser.

Location of Mine: Sec. 3, Tp. 33, Rge. 16, W. 4th M.

Method of Ventilation: Natural.

This mine is situated near Dowling Lake, about 25 miles northwest of Hanna, and is entered by means of a drift 6 ft. wide by 8 ft. high. The seam is 4 ft. 6 ins. in thickness.

Samuel Wadsworth. (Mine No. 497)

Overman: Samuel Wadsworth.

Mine Surveyor: Norman Fraser.

Location of Mine: Sec. 19, Tp. 29, Rge. 14, W. 4th M.

Method of Ventilation: Natural.

This mine is situated at the bottom of a coulee, 10 miles south of Hanna, and is entered by means of a drift. The coal seam is 3 ft. 6 ins. in thickness.

Martin M. Carter. (Mine No. 498)

Location of Mine: Sec. 6, Tp. 37, Rge. 15, W. 4th M.

This is a stripping proposition, situated 15 miles south of Halkirk. The seam is 2 ft. 4 ins. in thickness and lies at a depth of 8 ft. from the surface.

John Howells. (Mine No. 499)

Overman: Griffith Jones.

Location of Mine: Sec. 4, Tp. 10, Rge. 17, W. 4th M.

Method of Ventilation: Natural.

The seam at this mine is 3 ft. 6 ins. in thickness. Open lights are used throughout the mine.

David Ferguson. (Mine No. 600)

Location of Mine: Sec. 4, Tp. 10, Rge. 17, W. 4th M.

Practically no work has been done at this mine during the year and is now abandoned.

George Law. (Mine No. 601)

Overman: George Law.
 Mine Surveyor: Norman Fraser.
 Location of Mine: Sec. 10, Tp. 48, Rge. 18, W. 4th M.
 Method of Ventilation: Natural.

This mine is situated near Round Hill and is entered by means of a slope. The coal seam is 4 ft. 6 ins. in thickness and lies at a depth of 14 ft. from the surface.

Taras Manchenko. (Mine No. 602)

Overman: Taras Manchenko.
 Location of Mine: Sec. 2, Tp. 9, Rge. 5, W. 4th M.
 Method of Ventilation: Natural.

This mine is situated on Little Plume Creek, about 35 miles southeast of Medicine Hat, and is entered by means of drifts. The seam is 6 ft. 6 ins. in thickness and is pitching at an inclination of 20 degrees.

Fred Tebow. (Mine No. 603)

Overman: J. Mitchinson.
 Mine Surveyor: James Hargreaves.
 Location of Mine: Sec. 34, Tp. 41, Rge. 18, W. 4th M.
 Method of Ventilation: Natural.

This mine is situated in a coulee $1\frac{1}{2}$ miles from Donalda. The seam is 3 ft. 6 ins. in thickness and lies at a depth of 50 ft. from the surface.

A. Louis Wallace. (Mine No. 604)

Overman: James Bowie.
 Mine Surveyor: James Hargreaves.
 Location of Mine: Sec. 32, Tp. 41, Rge. 18, W. 4th M.
 Method of Ventilation: Natural.

This mine is situated in a coulee $1\frac{1}{2}$ miles from Donalda and is entered by means of drifts. The seam is 3 ft. 6 ins. in thickness and lies at depths varying from 12 ft. to 60 ft. from the surface.

Christopher S. Donaldson. (Mine No. 605)

Location of Mine: Sec. 16, Tp. 10, Rge. 21, W. 4th M.

This mine is still in the prospecting stage, the coal not having been reached yet.

John Morris. (Mine No. 606)

Mine Surveyor: G. A. Lavoie.
 Location of Mine: Sec. 26, Tp. 7, Rge. 2, W. 5th M.
 Method of Ventilation: Natural.

The coal seam at this mine averages 6 ft. in thickness and is pitching at an inclination of about 60 degrees. Open lights are used throughout the mine.

Pleming & Riegal. Mine No. 607)

Overman: John E. Pleming.

Mine Surveyor: James Hargreaves.

Location of Mine: Sec. 30, Tp. 41, Rge. 17, W. 4th M.

Method of Ventilation: Natural.

This mine is situated in a coulee nine miles southwest of Donalds and is entered by means of drifts. The seam is 6 ft. 1 in. in thickness and has bands of clay running through it.

Andrew Richmond. (Mine No. 608)

Overman: Andrew Richmond.

Location of Mine: Sec. 10, Tp. 38, Rge. 22, W. 4th M.

This mine is situated on the banks of the Red Deer River, eight miles southwest of Nevis, and is worked on a small scale.

John Carlson. (Mine No. 609)

Overman: John Carlson.

Mine Surveyor: James Hargreaves.

Location of Mine: Sec. 22, Tp. 42, Rge. 17, W. 4th M.

Method of Ventilation: Natural.

This mine is situated in a coulee 25 miles southwest of Daysland, and is entered by means of drifts. The seam is 4 ft. in thickness and lies at a depth of 100 ft. from the surface.

Leon Strylczyk. (Mine No. 610)

Overman: Fred Yurkoski.

Location of Mine: Sec. 10, Tp. 48, Rge. 18, W. 4th M.

Method of Ventilation: Natural.

This mine is entered by means of a slope. The seam, which is 4 ft. 6 ins. in thickness, is lying at a depth of 14 ft. from the surface. Open lights are used throughout the mine.

George Purdy. (Mine No. 611)

Mine Surveyor: Norman Fraser.

Location of Mine: Sec. 29, Tp. 32, Rge. 13, W. 4th M.

This is a stripping proposition, situated in a coulee ten miles northeast of Hanna. The coal seam is 34 ins. in thickness and lies at a depth of 8 ft. from the surface.

Charles McLean. (Mine No. 612)

Mine Surveyor: Norman Fraser.

Location of Mine: Sec. 6, Tp. 30, Rge. 13, W. 4th M.

This is also a stripping proposition, situated about 13 miles southeast of Hanna. The seam is 20 ins. in thickness and has a cover of 4 ft. over it.

Oscar Norman. (Mine No. 613)

Overman: Oscar Norman.

Mine Surveyor: James Hargreaves.

Location of Mine: Sec. 30, Tp. 41, Rge. 17, W. 4th M.

Method of Ventilation: Natural.

This mine is situated in a coulee nine miles southwest of Donalds and is entered by means of drifts. The seam is 6 ft. in thickness and has bands of bone and clay running through it.

Dietrich Brothers & Johnston (Mine No. 614)

Overman: J. H. Dietrich.

Mine Surveyor: James Hargreaves.

Location of Mine: Sec. 14, Tp. 42, Rge. 17, W. 4th M.

This mine is situated in a coulee on the banks of the Battle River, about 25 miles southwest of Daysland, and is operated on a very small scale.

Charles F. Martin. (Mine No. 615)

Overman: Jesse W. Allen.

Mine Surveyor: James Hargreaves.

Location of Mine: Sec. 28, Tp. 42, Rge. 17, W. 4th M.

Method of Ventilation: Natural.

The coal seam at this mine is 12 ft. in thickness and is lying at depths varying from 25 to 90 ft. from the surface. Only the lower portion of this seam, 5 ft. in thickness, is being worked.

MINE RESCUE STATIONS

I herewith submit report received from Mr. Duncan McDonald, giving particulars regarding the various Mine Rescue Stations and Cars in the Province:

Lethbridge, Jan. 3rd, 1916.

Sir,—I herewith submit my annual report for the year ending December 31st, 1915, on Mine Rescue Stations and Cars.

There are now six Stations and two Cars in operation.

The Lethbridge Mine Rescue Station No. 1, is situated at Hardieville. The Lethbridge Mine Rescue Station No. 2 is situated at Coalhurst. The Mine Rescue Station No. 3 is situated at Taber. The Jasper Park Mine Rescue Station is situated at Pocahontas. The Brazeau Mine Rescue Station is situated at Nordegg.

Car No. 1 operates between Burmis and Coleman, and Car. No. 2 operates between Canmore, Georgetown and Bankhead.

These Stations and Cars are fully equipped with the Proto and Salvator types of apparatus.

Lethbridge Mine Rescue Station No. 1 is equipped as follows:

- 5 apparatus of Proto type.
- 3 apparatus of Salvator type.
- 1 Compression pump.
- 1 Drager Pulmotor.
- 1 Inhalation apparatus.
- 1 Animal tester.
- 1 Meter for testing reducing valves.
- 10 Oxygen storage cylinders. (100 cubic feet capacity).
- 5 Smoke helmets.
- 1 First aid cabinet.
- 1 Valeda stretcher.
- 1235 Pounds lump caustic soda.
- 2228 Pounds stick caustic soda.

Lethbridge Mine Rescue Station No. 2 is equipped as follows:

- 5 Apparatus of Proto type.
- 1 Compression pump.
- 1 Drager Pulmotor.
- 1 Rectifier for re-charging lamps.
- 9 Oxygen cylinders. (100 cubic feet capacity).
- 5 Smoke helmets.
- 1 Valeda stretcher.
- 1200 Pounds stick caustic soda.
- 1492 Pounds lump soda.

Lethbridge Mine Rescue Station No. 3 is equipped as follows:

- 3 Apparatus of Salvator type.
- 6 Electric hand lamps.
- 1 Drager Pulmotor.
- 6 Oxygen cylinders. (100 cubic feet capacity).
- 1 Ordinary stretcher.
- 500 Pounds caustic lump soda.

Each Station is fully equipped with necessary spare parts for the apparatus, and also with supplies for rendering First Aid to the injured.

The schedule for each of the Stations is as follows:

First Schedule:

Explanation of the apparatus by the Superintendent.

Demonstration of the Pulmotor, inhalation apparatus, compression pump, animal tester, electric lamps and the taking apart and re-assembling of the apparatus.

Second Schedule:

Each member of the team to wear apparatus one hour in fresh air, and one hour in smoke room in a vitiated atmosphere, making five trips through a tunnel, 35 ft. in length, 18 ins. high and 24 ins. wide.

Third Schedule:

Each member of the team to wear apparatus two hours in smoke room in a vitiated atmosphere.

Fourth Schedule:

Each member of the team to build brick stopping, 6 ft. by 6 ft., make ten trips through the tunnel, build three wooden caps and move 1000 lbs. of rocks a distance of thirty ft.

Fifth Schedule:

Each member of the team to wear apparatus two hours, to apply Salvator to supposed unconscious man underground, and to transport him by stretcher a distance of one mile. The members of the team to apply the Pulmotor to each other and walk half a mile underground.

Sixth Schedule:

Each member of the team to wear the apparatus two hours and transport a weight of 180 lbs. on a stretcher up an incline of 1 in 7 and one thousand yards long, construct a brick stopping 6 ft. by 6 ft., with an opening 24 ins. by 24 ins. in the centre of it, in the smoke room and transport members of the team through regulator.

Each member of the team has to dismantle and assemble the apparatus and to re-charge the small cylinders each day of training.

The schedule of training is for six days, and each team has to take one day's training every month, if possible. Six months from the date of the first training each team is brought together again, when they are given a thorough examination, after which those who are found to be satisfactory are granted Mine Rescue Certificates.

During the year, in the Lethbridge District, the progress in mine rescue, and First Aid work, has been very satisfactory, the mine officials taking a very active part in this work.

The number of persons trained in Mine Rescue and First Aid Work in the Lethbridge District is as follows:

	Trained in Mine Rescue Work	Trained in First Aid Work
Lethbridge Mine Rescue Station No. 1	85	90
Lethbridge Mine Rescue Station No. 2	65	65
Lethbridge Mine Rescue Station No. 3	40	25

During the year there have been no calls made in the Lethbridge District and no accidents have occurred with the apparatus.

The Jasper Park Mine Rescue Station is equipped as follows:

- 6 Apparatus of Proto type.
- 2 Apparatus of Salvator type.
- 1 Compression pump.
- 1 Drager Pulmotor.
- 1 Inhalation apparatus.
- 1 Rectifier for re-charging lamps.
- 12 Electric hand lamps.
- 10 Oxygen storage cylinders. (100 cubic feet capacity).
- 1 Animal tester.
- 1 Meter for testing reducing valves.
- 3 Smoke helmets.
- 1 Ordinary stretcher.
- 1616 Pounds lump caustic soda.
- 676 Pounds stick caustic soda.

This Station is also fully equipped with all the spare parts required for the apparatus.

The Jasper Park Mine Rescue Station was equipped during the month of October. It is situated at the mine operated by the Jasper Park Collieries, Ltd.

Fifteen persons were trained in Mine Rescue Work at this Station.

The Brazeau Mine Rescue Station is equipped as follows:

- 5 Apparatus of Proto type.
- 2 Apparatus of Salvator type.
- 1 Compression pump.
- 1 Drager Pulmotor.
- 1 Inhalation apparatus.
- 10 Oxygen storage cylinders. (100 cubic feet capacity).
- 6 Electrical hand lamps.
- 1 Animal tester.
- 1 Meter for testing reducing valves.
- 1 Ordinary stretcher.
- 1400 Pounds lump caustic soda.
- 700 Pounds stick caustic soda.

This Station is also fully equipped with all the spare parts required for the apparatus.

The Brazeau Mine Rescue Station was equipped during the month of November, 1915. It is situated at the mine operated by the Brazeau Collieries, Ltd.

Fifteen persons were trained in Mine Rescue Work and twenty in First Aid Work at this Station.

MINE RESCUE CAR NO. 1

This car is fully equipped and is divided into lecture room, office, kitchen, toilet, and has standard berths for sleeping quarters for mine rescue crews. The car can be heated either by means of a heater installed in the car, or by means of steam supplied from the mine at which the car is stationed. An electric lighting unit consisting of a gasoline engine, direct connected to a 42-volt generator, and a storage battery of six cells, is used in connection with the generator from which the current is taken to light the car and to charge the cells for the electric lamps in connection with the equipment.

During the year this car has visited every mine in the Crow's Nest Pass, spending one month at each mine. A number of men have been trained at each mine and a number of those previously trained have been re-trained.

The car is equipped as follows:

- 10 Apparatus Proto type.
- 3 Apparatus Salvator type.
- 1 Compression pump.
- 1 Drager Pulmotor.
- 1 Oxygen inhalation apparatus.
- 1 Animal tester.
- 12 Electric hand lamps.
- 2 Valeda stretchers.
- 1 Meter for testing re-charging valves.
- 1 First aid cabinet.
- 14 Oxygen storage cylinders. (100 cubic feet capacity).
- 1424 Pounds lump caustic soda.
- 1088 Pounds stick caustic soda.

The car is also fully equipped with all the spare parts for the apparatus.

The number of men trained in Mine Rescue Work and First Aid Work in the Crow's Nest Pass is as follows:

	Trained in Mine Rescue Work	Trained in First Aid Work
Blairmore	23	10
McGillivray	15	20
Coleman	25	50
Passburg	10	10
Bellevue	40	30
Hillcrest	15	5
Burmis	10	5
Maple Leaf	5	5
Frank	10	..

MINE RESCUE CAR NO. 2

This car is fully equipped for Mine Rescue Work. It is divided into lecture room, office, kitchen and toilet, and has six standard berths, furnished with everything necessary for sleeping quarters for the mine rescue crews. The car can be heated either by means of a heater in the car or by means of steam supplied from the mine at which it is stationed.

An electric lighting unit is installed consisting of one and a half horse-power gasoline engine, connected to a 42-volt generator. A storage battery of six cells is used in connection with the generator from which the current is taken to light the car and to charge the lamps used in connection with Mine Rescue Work.

The car has visited during the year, Bankhead, Georgetown and Canmore mines, spending from three to four months at each, training new mine crews and re-training the previously trained crews.

The equipment of this car is as follows:

- 11 Apparatus of the Proto type.
- 2 Drago Pulmotors.
- 1 Oxygen reviving apparatus.
- 2 Compression pumps.
- 10 Storage cylinders. (150 cubic feet capacity).
- 1 Animal tester.
- 1 Meter for testing reducing valves.
- 12 Electric head lamps.
- 6 Smoke helmets.
- 1 First aid cabinet.
- 2 Valeda stretchers.
- 1 Large tent, 12 ft. by 14 ft. with 4 ft. walls.
- 940 Pounds stick caustic soda.
- 2360 Pounds lump caustic soda.

This car is also fully equipped with all the spare parts necessary for replacing damaged parts of the apparatus.

The number of mine officials and employees who have been trained in Mine Rescue and First Aid Work at the mines at which the car has visited is as follows:

	Trained in Mine Rescue Work	Trained in First Aid Work
Canmore	25	..
Georgetown	10	..
Bankhead	20	5

During the year no calls have been made for the car and no accidents have occurred during training.

During the year the Canadian Mining Institute installed branch libraries at Lethbridge Mine Rescue Station No. 1 and both Mine Rescue Cars. The Institute supplies these branch libraries each week with various publications, to which all mining students have access.

Mine Rescue and First Aid Work is now fully organized in the majority of the mining districts of the Province. There have been installed during the year 1915, two Mine Rescue Stations, one at Pocahontas and one at Nordegg, the former being installed in the month of October and the latter in the month of November.

Tests of the most strenuous nature have been made at all the Stations and Cars during the year, thus proving to the Mine Rescue crews the efficiency of the equipment for the work.

The training schedules have been revised with a view to having all the crews trained as efficiently as possible.

Your obedient servant,

DUNCAN McDONALD,

Superintendent of Mine Rescue Stations.

JOHN T. STIRLING,

Chief Inspector of Mines,

Edmonton, Alta.

ACCIDENTS.

Eighteen fatal accidents occurred during the year, three of which occurred above ground and fifteen underground.

The fatal accident which occurred to John Reid on January 21st, 1915, in the mine operated by the Jasper Park Collieries, Ltd., Pocahontas, was caused by a fall of rock. Deceased returned to his place about three minutes after two shots had been fired, when a piece of rock from a roll in the hanging wall fell on him.

The fatal accident which occurred to Fred Schmidt, on February 15th, 1915, in the mine operated by the Twin City Coal Co., Ltd., Edmonton, was caused by ignition of gas. A small amount of gas accumulated in the face of the main entry, and owing to the neglect of the examiner this entry was not fenced off nor the gas removed. Schmidt, who went into the place with an open light, ignited the gas, causing an explosion, with the result that a number of timbers were blown out of the main gangway and a fall occurred under which Schmidt was buried.

The fatal accident which occurred to William Horn on February 19th, 1915, in the mine operated by the Brazeau Collieries, Ltd., near Nordegg, was caused by Horn being caught between a car and a timber.

The fatal accident which occurred to Richard Murphy, in the mine operated by Armour and Stauffer, near Morrin, on March 9th, 1915, was caused by a fall of roof. This is a small mine and it appears that Murphy had gone into the mine, which was not in

operation at the time, to get sufficient coal to complete his load, when the fall of roof took place, causing his death.

The fatal accident which occurred to Robert Thompson on March 13th, 1915, in the mine operated by the Jasper Park Collieries, Ltd., Pocahontas, was caused while Thompson was repairing a set of timbers at the side of a chute. Thompson was working alone on the counter entry, when it would appear as if the side of the chute caved from under him, allowing the timber to break away and causing him to fall into the chute.

The fatal accident which occurred to William Barclay on March 27th, 1915, in the mine operated by the Jasper Park Collieries, Ltd., near Pocahontas, was caused while Barclay was working in the pillar section, along with a partner, when a large piece of coal fell from the high side of the pillar and crushed him against the low side.

The fatal accident which occurred to James Barese, on April 15th, 1915, in the mine operated by The West Canadian Collieries, Ltd., Bellevue, occurred while Barese was working as a driver. He was crushed by a loaded car.

The fatal accident which occurred to Louis Dardin on April 21st, 1915, was caused while Dardin, who was employed in the mine operated by the Great West Coal Co., Ltd., Edmonton, was attending to the ventilating machinery. No person saw the accident, but it would appear that Dardin had been caught by the belt for driving the fan while he was attempting to oil the machinery.

The fatal accident which occurred to Harry Aspey on May 24th, 1915, at the mine operated by Edward Berford, occurred while Aspey was loading rock into a car. The place where he had been working was newly timbered, but apparently the timbers swung, allowing a considerable portion of the roof to fall, burying deceased.

The fatal accident which occurred on July 20th to Thomas Cordbon, a driver in the employ of the Canadian Coal and Coke Co., Ltd., Coalhurst, was caused by a car becoming derailed. Cordbon was found between the first and second cars of a two car trip, one end of the front car being off the track.

The fatal accident which occurred to Ernest Johnson in the mine operated by Fred Tebow, near Donalds, on September 16th, 1915, was caused by a fall of roof.

The fatal accident which occurred to S. Dalimento, in the mine operated by the Cardiff Collieries, Ltd., Cardiff, on September 20th, 1915, was caused while Dalimento was taking a loaded car along the main entry. He stopped at the switch, but was told to come on. Another driver was coming with an empty car, with the result that there was a collision and Dalimento was crushed between the two cars.

The fatal accident which occurred to Wasyl Hapiuk, on September 30th, 1915, in the mine operated by the Hillcrest Collieries, Ltd., near Hillcrest, was caused while Hapiuk was moving an empty trip along No. 1 North Entry, when he met a loaded car coming out. In the collision which ensued, Hapiuk met with the injuries which terminated fatally.

The fatal accident which occurred to Thomas Leyshon on October 18th, in the mine operated by the Alberta Block Coal Co., near Drumheller, occurred while Leyshon was repairing a bad portion of the roof in his place which he had been instructed by the examiner to do.

The fatal accident which occurred to Barney Presbitro on October 29th, in the mine operated by the West Canadian Collieries, Ltd., at Bellevue, was caused by fall of coal at the working face.

The fatal accident which occurred to G. Lees on December 27th, 1915, in the mine operated by the Twin City Coal Co., Ltd., Edmonton, was caused by a piece of rock falling near the face of his room between the last two sets of timbers.

The fatal accident which occurred to Julius Ferrissini on December 11th, 1915, was caused while Ferrissini, along with two other men, was pushing a car up an incline to which a rope was attached. It is assumed that the rope became detached, allowing the car to run back, with the result that Ferrissini was crushed by it.

The fatal accident which occurred on December 9th, 1915, to Walter H. Mansfield, in the mine operated by George Purdy, near Hanna, occurred while Mansfield was digging coal. This mine is operated by stripping the surface, and Mansfield, who was working in below a portion of the surface which was projecting over the coal face, was crushed by this portion of the surface falling on him.

The following table gives the number of tons mined per accident in the Province from the years 1906 to 1915, inclusive:

Summary Table Showing Accidents Occurring in Mines During 1906 to 1915 Inclusive.

YEAR	OUTPUT	ACCIDENTS			TONS OF COAL MINED PER ACCIDENT		
		Fatal	Serious	Slight	Fatal	Serious	Slight
1906	1,385,000	10	11	20	138,500	125,909	69,250
1907	1,834,745	19	18	68	96,565	101,930	26,981
1908	1,845,000	11	38	13	167,727	48,552	141,923
1909	2,174,329	9	42	18	241,952	51,769	120,796
1910	3,036,757	61*	41	58	49,782*	71,067	52,375
1911	1,694,564	7	32	45	242,080	52,955	37,656
1912	3,446,349	21	38	58	164,111	90,693	59,419
1913	4,306,346	28	60	83	153,789	71,772	51,883
1914	3,821,739	209**	44	50	18,286	86,857	76,434
1915	3,434,891	18	33	33	190,827	104,087	104,087
Total	26,979,720	393	357	446	68,650	75,545	60,716

* Including thirty-one deaths caused by Bellevue explosion.

**Including one hundred and eighty-nine deaths caused by Hillcrest explosion.

Table Showing Accidents During 1915 Classified According to Districts.

DISTRICT	OUTPUT	ACCIDENTS			TONS OF COAL MIN'D PER ACCIDENT		
		Fatal	Serious	Slight	Fatal	Serious	Slight
Crow's Nest Pass.	919,383	3	9	7	306,461	102,153	131,340
Lethbridge	719,728	2	8	10	359,864	89,946	71,972
Edmonton	849,350	7	8	7	121,335	106,168	121,335
Calgary	943,897	6	8	9	157,316	117,985	104,877

Classification of Accidents According to Outputs of Mines Which
Produced During 1915.

	Under 10,000 Tons	From 10,000 to 50,000 Tons	From 50,000 to 100,000 Tons	From 100,000 to 200,000 Tons	From 200,000 to 300,000 Tons	From 300,000 to 400,000 Tons	Total
Fatal ...	4	1	6	2	3	2	18
Serious .	1	7	5	7	13	—	33
Slight ..	8	5	7	7	6	—	33
Total..	13	13	18	16	22	2	84

Table Showing Accidents During 1915 Classified according to the Mines at Which They Occurred.

NAME OF OPERATOR	ABOVE GROUND				BELOW GROUND				Total Above and Below Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
Great West Coal Co., Ltd.	1			1		1		1	2
Canadian Coal & Coke Co., Ltd. (Beaver Mines)			1	1					1
Canadian Coal & Coke Co., Ltd. (Pacific Pass)						1	2	3	3
Canadian Coal & Coke Co., Ltd. (Coalhurst)			3	3			1	2	5
Canadian Coal & Coke Co., Ltd. (St. Albert)						1		1	1
Canadian Coal & Coke Co., Ltd. (Lovett)							1	1	1
Jasper Park Collieries, Ltd.						3		4	4
Georgetown Collieries, Ltd.									4
Union Coal Co., Ltd.							1	1	1
Twin City Coal Co., Ltd.						2		2	1
Canadian Pacific Railway Co. (Lethbridge) No. 6	1			1		4	3	7	8
Canadian Pacific Railway Co. (Lethbridge) No. 3			1	1		1	1	2	3
Canadian Pacific Railway Co. (Bankhead)			1	1		2		2	3
Brazeau Collieries, Ltd.						2		4	4
Rock Spring Coal & Brick Co., Ltd.		2	1	3					3
Rosedale Coal & Clay Products Co., Ltd.						1	1	2	2
Edmonton Standard Coal Co., Ltd.							2	2	2
Humberstone Coal Co.							3	4	4
Alex. Stauffer	1			1					3
Hillcrest Collieries, Ltd.									3
McGillivray Creek Coal & Coke Co., Ltd.						6	3	10	10
West Canadian Collieries, Ltd. (Bellevue)						2	1	3	3
Byers Bros.						1		2	2
Edward Berford							1	1	1
Franco-Canadian Collieries Ltd.						1		1	1
Mountain Park Coal Co. Ltd.						2		2	2
Pembina Coal Operators, Ltd.	1			1					2
						1		1	1

Table Showing Accidents During 1915 Classified According to the Mines at Which They Occurred.---Continued.

NAME OF OPERATOR	ABOVE GROUND				BELOW GROUND				Total Above and Below Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
Cannmore Coal Co., Ltd.					2			2	2
Saunders Creek Coal Co., Ltd.							1	1	1
Fred Tebow								1	1
The Cardiff Collieries, Ltd.					1			1	1
Battle River Collieries, Ltd.					1			1	1
Alberta Block Coal Co.					1			1	1
Midland Collieries, Ltd.							1	1	1
Consumers' Co-Operative Co., Ltd.						1		1	1
George Purdy	1			1			1	1	1

Tabulated List of Accidents Occuring in the Province Above and
Below Ground during the Year 1915.

CAUSE	FATAL		SERIOUS		SLIGHT		TOTAL	
	Above	Below	Above	Below	Above	Below	Above	Below
Miscellaneous		1	2	2	3	2	5	5
Fall of earth	1						1	
Lifting timber						1		1
Haulage		5	1	11		4	1	20
Fall of roof		3		2		6		11
Fall of rock	1	2		1		1	1	4
Circular saw			1				1	
Fall of coal		3		7		5		15
Explosives					2	1	2	1
Cage						2		2
Burning carbide						1		1
Machinery	1			1		1	1	2
Fall of scaffold					1		1	
Fall of caprock				3				3
Ignition of gas		1				1		2
Fall of top coal				1		1		2
Fall down shaft						1		1
Railway car			1				1	
Total	3	15	5	28	6	27	14	70

The following table gives the classification of accidents according to the district in which they occurred:

CROW'S NEST PASS

CAUSE	FATAL		SERIOUS		SLIGHT	
	Above	Below	Above	Below	Above	Below
Miscellaneous					1	2
Haulage		2		4		
Fall of coal		1		2		3
Machinery				1		1
Fall of caprock				2		
Total		3		9	1	6

CALGARY

CAUSE	FATAL		SERIOUS		SLIGHT	
	Above	Below	Above	Below	Above	Below
Fall of earth	1					
Haulage		2		3		2
Lifting timber						1
Fall of roof		2				3
Fall of rock	1					1
Fall of coal				4		1
Fall of scaffold					1	
Fall of caprock				1		
Total	2	4		8	1	8

LETHBRIDGE

CAUSE	FATAL		SERIOUS		SLIGHT	
	Above	Below	Above	Below	Above	Below
Miscellaneous		1	2	2	2	
Haulage						1
Fall of roof		1		1		1
Railway car			1			
Circular saw			1			
Fall of coal						1
Explosives					2	1
Cage						1
Ignition of gas						1
Fall of top coal				1		
Total		2	4	4	4	6

EDMONTON

CAUSE	FATAL		SERIOUS		SLIGHT	
	Above	Below	Above	Below	Above	Below
Haulage		1	1	4		1
Fall of roof				1		2
Fall of rock		2		1		
Fall of coal		2		1		
Cage						1
Burning carbide						1
Machinery	1					
Ignition of gas		1				
Fall of top coal						1
Fall down shaft						1
Total	1	6	1	7		7

LIST OF ACCIDENTS WHICH HAVE OCCURRED DURING 1915.

DATE	MINE	NAME	AGE	OCCUPATION	DETAILS
Jan.	8|The Great West Coal Co., Ltd.	Stanley Ruskofski	24	Miner	Fall of roof. Right leg broken.
Jan.	8|Canadian Coal & Coke Co., Ltd. (Beaver)	Victor H. Lord	30	Engineer	Foot slipped while closing valve. Ankle of left leg dislocated.
Jan.	14|Canadian Coal & Coke Co., Ltd. (Lovett)	Steve Lankey	27	Driver	Caught between car and shafts. Ribs broken.
Jan.	21|Jasper Park Collieries, Ltd.	John Reid	24	Miner	Fall of rock from hanging wall. (Fatal).
Jan.	25|The Georgetown Collieries, Ltd.	William Humphrey	28	Timberman's hlp'r	Fall of roof. Right leg bruised.
Feb.	9|Union Coal Company	Bernard Lewis	26	Machine runner	Fall of coal. Hand and finger cut and bruised.
Feb.	15|Twin City Coal Co., Ltd.	Fred Schmidt	24	Machineman's hlp'r	Ignition of gas. (Fatal).
Feb.	16|Canadian Pac. Rly. (No. 6 Shaft) Lethbridge	S. A. B. Crabb	40	Shot-firer	Premature explosion of shot. Face and hands burned.
Feb.	19|Brazeau Collieries, Ltd.	William Horn	25	Driver	Crushed by car. (Fatal).
Mar.	2|Rock Springs Coal and Brick Co., Ltd.	Alex. Lupool	37	Labourer	Arm broken. Switching car overhead.
Mar.	2|Rosedale Coal and Clay Products, Co. Ltd.	James Dovey	38	Miner	Compound fracture right leg. Fall of coal.
Mar.	3|Georgetown Collieries, Ltd.	Jake Luckowitsky	23	Driver	Left foot crushed. Collided with loaded trip.
Mar.	4|Edmonton Standard Coal Co., Ltd.	James Forrest	31	Shiftman	Bruised and shaken. Fell down shaft.
Mar.	4|Humberstone Coal Co.	Clarence Joyce	35	Miner	Ankle sprained. Fall of top coal.
Mar.	9|Canadian Pacific Railway (No. 6 Shaft)	J. Cachan	30	Loader	Right ankle fractured by timber falling on foot.
Mar.	9|Armour and Stauffer	Richard Murphy		Farmer	Fall of rock. (Fatal).
Mar.	12|Edmonton Standard Coal Co., Ltd.	Joseph Zionoski	41	Miner	Slightly bruised. Fall of roof.
Mar.	13|Jasper Park Collieries, Ltd.	Robert Thompson	37	Miner	Fall of coal. (Fatal).
Mar.	18|Georgetown Collieries, Ltd.	James Sommerville	44	Driver	Bruised. Struck by tail chain.
Mar.	24|Hillcrest Collieries, Ltd.	Peter Stanchik	37	Miner	Fall of cap rock. Back injured.
Mar.	27|Jasper Park Collieries, Ltd.	William Barclay	32	Miner	Fall of coal from rib. (Fatal).
Apr.	10|Canadian Pacific Railway (No. 3 Shaft)	Alex. Dublank	23	Loader	Ignition of gas. Slight burns on face and neck.

DEPARTMENT OF PUBLIC WORKS.

DATE	MINE	NAME	AGE	OCCUPATION	DETAILS
Apr. 10	McGillivray Creek Coal and Coke Co., Ltd.	Connan Belik	36	Timberpacker	Fingers caught in sheave wheel.
Apr. 15	West Canadian Collieries, Bellevue	James Barese	23	Driver	Struck by loaded car. (Fatal).
Apr. 20	Hillcrest Collieries, Ltd.	Sante Tomada	38	Bucker	Crushed between car and chute. Fractured pelvis.
Apr. 20	Hillcrest Collieries, Ltd.	Potapy Cobrin	33	Bucker	Fall of coal in chute. Right leg injured.
Apr. 27	Great West Coal Co., Ltd.	Louis Darden	34	Fan-tender	Caught by machinery. (Fatal).
May 4	Canadian Pacific Railway, Bankhead	F. Pariza	34	Miner	Fall of cap rock. Fracture of left tibia.
May 8	Byers Brothers	Eric Yeo Aitken	25	Dayman	Fall of roof. Fractured leg.
May 14	Canadian Pacific Railway (No. 6 Shaft)	Nick A. Lastuka	18	Driver	Fell in front of trip. Right leg bruised.
May 16	McGillivray Creek Coal and Coke Co., Ltd.	Eerdman McLeod	30	Master mechanic	Fell off drum. Left leg severed above ankle.
May 24	Edward Berford	Harry Aspey	29	Miner	Fall of roof. (Fatal).
May 31	Jasper Park Collieries, Ltd.	H. Davies	23	Miner	Fall of coal. Left thigh fractured.
June 2	Hillcrest Collieries, Ltd.	George Frolak	21	Bucker Boss	Caught between cars. Fracture of left femur.
June 2	Hillcrest Collieries, Ltd.	Alfred P. White	18	Rope-rider's helper	Fell under car. Right leg injured.
June 5	Franco-Canadian Collieries, Ltd.	T. Leskosky	28	Driver	Caught by car. Broken pelvis bone.
June 8	Brazeau Collieries Ltd.	Allan Penman	38	Miner	Fall of coal. Fracture of right collar bone.
June 14	Mountain Park Coal Co., Ltd.	Alex. Shipple	22	Driver	Horse fell on him. Left leg broken.
June 21	Canadian Coal and Coke Co., Ltd. (Lethbridge Colliery)	Hugh Evans	33	Examiner	Overwinding of cage. Left knee dislocated.
July 2	Hillcrest Collieries, Ltd.	Charles McGuigan	27	Miner	Fall of cap rock. Broken leg and forearm.
July 8	Pembina Coal Operators, Ltd.	Frank Raymond	40	Electrician	Head crushed between motor and timbers.
July 9	The Canmore Coal Co., Ltd.	John Zelenak	29	Rope-rider	Caught between cars and prop. Left collar bone broken.

DATE	MINE	NAME	AGE	OCCUPATION	DETAILS
July 19	Canadian Pacific Railway (Bankhead)	John Moore	46	Carpenter	Fell off scaffold. Back and stomach bruised.
July 20	The Georgetown Collieries, Ltd.	Kubrica Walenty	27	Back-hand	Fall of rock. Right leg fractured.
July 20	Canadian Coal & Coke Co., Ltd. (Lethbridge Collieries)	Thomas Cordbon	23	Driver	Cause unknown. (Fatal).
Aug. 12	Hillcrest Collieries, Ltd.	Samuel Jennings	16	Fan boy	Finger crushed in gear wheel of hand fan.
Aug. 16	McGillivray Creek Coal & Coke Co., Ltd.	Andrew McLeod	50	Miner	Fall of top coal. Fractured pelvis.
Aug. 12	Canadian Pacific Rly., (Lethbridge, No. 6)	V. Bailon	24	Machine runner	Leg crushed between machine and rib.
Aug. 25	Canadian Pacific Railway, (Bankhead)	Joseph J. Cole	36	Miner	Fall of coal. Fracture of right tibia.
Aug. 31	The Saunders Creek Coal Co., Ltd.	John Polak	43	Miner	Fall of rock. Side and hip bruised.
Sept. 1	Franco-Canadian Collieries	Edward Allard	19	Driver	Squeezed between car and timber. Ribs bruised.
Sept. 10	Canmore Coal Co.	John Serna	34	Mir 3r's help	Fall of coal. Spine fractured.
Sept. 10	Canadian Pacific Railway Co., Lethbridge.	George Felton	33	Weighman	Struck by pipe. Right forearm broken.
Sept. 16	Fred Tebow	Ernest Johnson	24	Miner	Fall of roof. Back crushed.
Sept. 20	Brazeau Collieries, Ltd.	A. Paulin	30	Pusher	Struck by car. Right leg broken below knee.
Sept. 20	The Cardiff Collieries, Ltd.	S. Dalimento	22	Driver	Mistook signals. Left leg broken below knee.
Sept. 23	Can. Coal & Coke Co., Ltd., St. Albert	William Peczeniuk	33	Miner	Fall of rock. Left leg fractured.
Sept. 30	The Humberstone Coal Co., Beverly	Mike Tomak	25	Driver	Crushed between car and timber. Right side bruised at lower ribs.
Sept. 30	Hillcrest Collieries, Ltd.	Waysl Hapiuk	23	Driver	Collision of cars. Leg severely crushed. (Died).
Oct. 9	Canadian Pacific Railway Co., Lethbridge.	Bill Sopko	20	Loader	Fall of rock. Back bruised.
Oct. 7	Canadian Pacific Railway Co., Lethbridge.	George Toderan	22	Driver	Fell in front of cars. Fractured clavicle.
Oct. 11	The Humberstone Coal Co.	David Watson	24	Pumpman	Ignition of carbide. Neck burned.
Oct. 13	Canadian Pacific Railway Co., Lethbridge.	Nick Onofrychuck	50	Timber handler	Fell off pile of timber. Knee injured.
Oct. 15	Canadian Pacific Railway Co., Lethbridge.	John Roter	27	Coal loader	Fall of top coal. Broken ribs.

DEPARTMENT OF PUBLIC WORKS.

DATE	MINE	NAME	AGE	OCCUPATION	DETAILS
Oct. 16	Battle River Collieries, Ltd., Rosenroll	William Seigmund	50	Miner	Cage struck bottom of shaft too heavily. Right foot sprained.
Oct. 18	Newcastle Coal Co., Ltd., Alberta Block Coal Co.	Thomas Leyshon	37	Miner	Fall of roof. (Fatal).
Oct. 19	Canadian Coal & Coke Co., Ltd., Lethbridge Colliery	James Hill	48	Examiner	Explosion of detonator. Scratches only.
Oct. 19	Canadian Coal & Coke Co., Ltd., Lethbridge Colliery	Peter Melling	43	Examiner	Explosion of detonator. Scratches only.
Oct. 29	Hillcrest Collieries, Ltd.	Frank Lote	43	Miner	Fall of coal. Contusion of right leg; bone in left foot broken.
Oct. 29	Hillcrest Collieries, Ltd.	Joseph Lesson	39	Miner	Fall of coal. Contusion of right leg.
Oct. 29	West Canadian Collieries, Ltd., Bellevue	Barney Presbitro	40	Miner	Fall of coal. Back broken.
Nov. 11	Midland Collieries, Ltd.	Robert Gerke	28	Miner	Fall of coal. Left leg broken in two places above the knee.
Dec. 13	Canadian Pacific Railway Co., Lethbridge	Fred Brendzan	27	Coal loader	Fall of coal. Fracture of left tibia.
Dec. 14	Canadian Coal & Coke Co., Ltd., Lovettville	Alex. Rubrie	25	Miner	Fall of roof. Back, neck and head bruised.
Dec. 15	Canadian Coal & Coke Co., Ltd., Lethbridge	N. Stewart	23	Labourer	Left leg cut by air saw.
Dec. 17	The Humberstone Coal Co., Beverley	Frank Sivik	30	Pusher	Caught between car and prop. Ribs fractured.
Dec. 27	The Rock Springs Coal & Coke Co.	Alex. Lupool	38	Labourer	Fell off gangway. Arm broken.
Dec. 27	Twin City Coal Co., Ltd.	G. Lees	23	Miner	Fall of rock. (Fatal).
Dec. 11	Brazeau Collieries, Ltd.	Julian Ferrasini	30	Miner	Run over by car.
Dec. 11	Rosedale Coal & Clay Products	Antonio Silvaggio	35	Miner	Slip in roof. Foot bruised.
Dec. 30	Canadian Coal & Coke Co., Ltd., Lovettville	Alex. Bruce	30	Driver	Fractured collar bone. Struck by tail chain.
Nov. 17	Consumers' Co-operative Co., Ltd., Big Valley	A. W. Honey	35	Miner	Strained back lifting timber.
Dec. 9	George Purdy	W. H. Mansfield	54	Farmer	Fall of earth while stripping coal. (Fatal).
Dec. 27	Rock Springs Coal & Brick Co.	Alex. Lupool	38	Labourer	Fell off gangway. Arm broken.

BOARD OF EXAMINERS.

During the year 1913 the Province for the purposes of Section 17 of The Mines Act was divided into 6 districts, and a district board of examiners appointed for each of these districts. It was, however, considered advisable to have one central board for the Province as provided for in Section 17, Subsection 3, of The Mines Act. The composition of this board is now as follows:

As representing:

- (a) The Mine Inspectorate:
John T. Stirling, Chief Inspector of Mines.
- (b) Managers:
Messrs. Robert Livingstone and Wm. A. Davidson.
- (c) Miners:
Messrs. Fred Allott and A. Goodwin.

A meeting of the board was held at Frank on August 4th, 1915.

Rules for the conduct of examinations which were made and approved by you, were put into effect on January 31st, 1914.

The following local examiners were appointed by the Provincial board:

Crow's Nest Pass District:	W. A. Davidson William Shaw
Lethbridge District:	Robert Livingstone Samuel A. Jones
Calgary District:	John Watters James A. Richards
Edmonton District:	Alex. C. Dunn Francis Aspinall
Edson District:	Andrew A. Millar Ernest D. Black

Examinations of candidates for First and Second Class Certificates were held at Frank, Calgary, Lethbridge and Edmonton on June 15th, 16th and 17th, and for Third Class Certificates at Frank, Lethbridge, Calgary, Edmonton and Edson on June 2nd.

During the year 80 candidates made application to sit at these examinations, 32 of whom passed as follows:

Managers, 4; overmen, 11; examiners, 27.

163 persons hold final certificates, qualifying them to act as mine managers, 194 hold final certificates qualifying them to act as overmen, 396 hold final certificates qualifying them to act as examiners and shot-lighters, and 123 hold mine surveyors' certificates.

During the year 173 Provisional Certificates were issued, authorizing the holders of these certificates to act as overmen until they had an opportunity of obtaining certificates by examination. No Third Class Provisional Certificates have been issued during the year.

The following are the questions set at the examinations for First and Second Class Certificates held at Edmonton, Frank, Calgary and Lethbridge, on June 15th, 16th and 17th, under The Mines Act.

FIRST CLASS CERTIFICATES.

Marks Obtainable, 200.

Marks Required, 120.

Paper No. 1.

Time---Three Hours.

THE MINES ACT.

Values.

1. What are the requirements of the Act regarding the supervision and the working of electrical apparatus? 20
2. State the daily and weekly reports which the manager has to keep or cause to be kept at a mine. 20
3. What are the powers of the District Inspector and the Chief Inspector in dealing with causes of danger not specially provided for in the Act? 20
4. What is a Split? Write a copy as required by the Act of an imaginary record of the weekly air measurements. 25
5. What are the accidents which may occur to workmen in connection with hoisting shafts and what are the provisions of the Act which tend to prevent these accidents? 25
6. What are the special instructions for the operation of haulage roads? 15
7. Outline fully all the provisions of the Act regarding the use and care of safety lamps. 25
8. What are the provisions of the Act regarding "permitted explosives"? How is a permitted explosive defined? Name an explosive defined as a "permitted explosive" under the Explosives in Coal Mines Orders and state (a) its composition, (b) how it shall be used, (c) weight allowed to be used in any one shot-hole, and (d) what marking should be on each cartridge and package. 20
9. On taking up your duties as a Manager at a mine, what investigations would you make to assure yourself as to the safety, economy and general efficiency of the operation? 30

FIRST CLASS CERTIFICATES.

Marks Obtainable, 200.

Marks Required, 120.

Paper No. 2.

Time---Three Hours.

THEORY AND PRACTICE OF VENTILATION.

Values.

1. What would be the difference in reading of the barometer and thermometer between the surface and the bottom of a shaft 1,000 feet deep? 15

2. Sketch the underground workings of any mine with which you are familiar. Show the direction of the air currents and mark on sketch the quantity of air passing in each split. Also show all air-crossings, stoppings, regulators, and doors. 30
3. What is the pressure producing ventilation in a square airway, 64 square feet in area and 3,000 feet long, the velocity being 500 feet per minute? 20
4. Describe how the quantity of air is affected by (a) sectional area, (b) by rubbing surface, (c) by areas of airway. 25
5. When fire-damp at its most explosive point is fired, what are the resultant gases and what are their properties? 25
6. A mine is ventilated by a fan connected with the return airway. The fan is running at its maximum speed, but the ventilation is inadequate. If a fan is placed at one of the intake openings and used to force air into the mine, what effect will this have on the ventilation of the mine? 30
7. Explain the principle of the safety lamp. What dangers are to be guarded against in the use of electric lamps underground? 15
8. An analysis of the mine air taken in the return airway shows 2.0 per cent. methane. The velocity of the air-current is 1,500 feet per minute. What regulations would you adopt with regard to this airway? 25
9. State the conditions under which the presence of the various mine gases may be expected? 15

FIRST CLASS CERTIFICATES.

Marks Obtainable, 200.

Marks Required, 120.

Paper No. 3.

Time---Three Hours,

SURVEYING.

Values.

1. Explain by suitable diagrams how a vernier may be constructed and read to 1/100 of an inch. 20
2. Describe fully how the area of an enclosed figure may be found—
 - (1) by calculation
 - (2) by graphical means
 - (3) by mechanical means 15
3. What are the practical advantages and disadvantages of using (a) a fixed base such as the true North, (b) the magnetic meridian in mine surveying and extending mine maps? 15
4. Plot the following survey to a scale of 1" to 100 feet and find by calculations the bearing and length of the closing line from Station 5 to Station 2.

Stations.	Bearing.	Distance in feet.	
1-2	N85½ E	125	
2-3	N17¼ E	168	
3-4	S89 E	97	
4-5	S 7¾ W	150	25

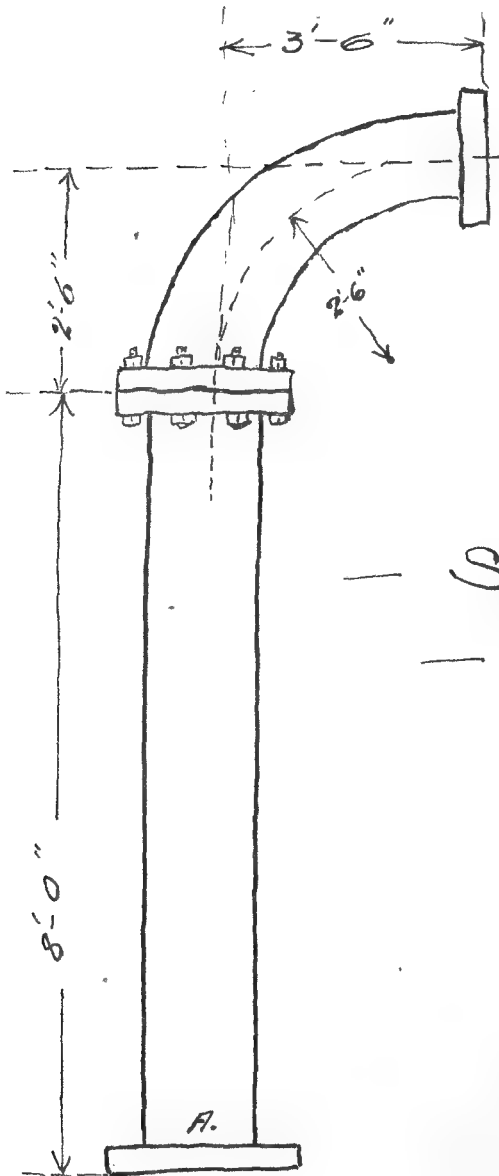
5. Plot the following notes from a level book and calculate the average grade of a road driven from point "A" to point "B".

Station.	B.S.	I.S.	F.S.	Distance in feet.	Notes.	
1	5.60					
2		5.70		100	Point A	
3	3.10		6.10	100		
4	5.30		6.50	100		
5	3.95		4.70	100		
6		3.95		100	Point B	
7			5.05	100		25

6. Describe fully the system of Government land survey in Alberta. Show clearly how the legal parcels into which the land may be divided are marked and enumerated. 20

7. The following is a sketch of an 8" malleable iron pipe with flanged joints. Make a drawing on a scale $\frac{1}{4}$ inch to the foot showing a longitudinal section of the pipe and project a view of the face of the flange at "A". Mark on the drawing all sizes and dimensions.

25



— Sketch of —
— 8 inch Pipe —

8. What is the area of an equilateral triangle, the base of which measures 60 feet? 15
9. The plan of an underground levelling and the plan of a tied in survey of at least ten sights as required by Rule

2 (a) (v) of the Rules as to Qualifications of Applicants for First, Second and Third Class Certificates of competency, must be handed in with the answers to this paper.

40

FIRST CLASS CERTIFICATES.

Marks Obtainable, 200.

Marks Required, 120.

Paper No. 4.

Time---Three Hours.

PRACTICAL WORK.

Values.

1. What are the causes of miss-fires in shaft sinking? Sketch and give composition and description of (a) a high tension detonator, (b) a low tension detonator. What is the minimum amperage required for shotfiring? Show by diagram 8 holes coupled up ready for simultaneous blasting, 1st, coupled in Series, 2nd, coupled in two groups of four holes each in parallel connection. 30
2. What are the great Geological periods into which the earth's history is divided? In which Geological age is the Alberta Coal Field? Tabulate the different formations into which this age has been divided. 30
3. Sketch and describe in detail how you would lay the switches at the junction of a side entry with the main entry in an endless rope haulage system where the haulage ropes run beyond the side entry in question, to an inside district. 30
4. There are several broken booms or collars in a haulage road through heavy ground. How would you repair this road so as not to interfere with the working of the mine? 30
5. Sketch and describe a method of working practised in any mine in Alberta with which you are acquainted. Discuss the advantages or disadvantage of this particular method under the existing conditions. 30
6. Describe a method which has been adopted to completely fill the gob or waste in mines. What plant and filling material is used for this purpose? At the present stage of mining development in Alberta, could such a system of filling be profitably employed? Give reasons for your answer. 25
7. A mine is worked with rooms straight up the pitch. The seam is 10 feet thick, pitch 65 degrees and the roof is heavy. Give details of the different methods used to supply timber to the miners at the face. 25

FIRST CLASS CERTIFICATES.

Marks Obtainable, 200.

Marks Required, 120.

*Paper No. 5.**Time---Three Hours.***EXPLOSIONS, UNDERGROUND FIRES
AND INUNDATIONS***Values*

1. Describe in a general way the precautions you would take with regard to coal dust (a) in a mine yielding marsh gas, (b) in a mine free from marsh gas but where explosives are used. 25
2. You wish to make an examination of the dust deposit in an underground airway for the purpose of determining whether it is dangerous or not. How should the dust samples be taken and to what tests should they be submitted? 25
3. If the air entering a mine is completely saturated with moisture and at one season the average temperature is 30 degrees Fah. and at another 70 degrees Fah., while the mine air is constant at 55 degrees Fah., state what effect these changes in the temperature would have on the safety of the mine. 20
4. Smoke is discovered in the return airway of a mine which yields inflammable gas. State fully what action you would take. 30
5. Give a description, with sketch, of a type of rescue apparatus with which you are familiar, and state some of the precautions to be observed by a person using same. 25
6. In a mine subject to fires caused by spontaneous combustion what is the first evidence of the existence of such a fire and what steps should be taken to overcome the danger? 25
7. State the characteristics of the coal seam you would consider most dangerous from a dust standpoint. 25
8. Describe the organization necessary for the proper conduct of exploring and rescue work after an explosion. 25

FIRST CLASS CERTIFICATES.

Marks Obtainable, 200.

Marks Required, 120.

*Paper No. 6.**Time---Three Hours.***MACHINERY.***Values.*

1. Give weights of a cubic foot of cast iron, coal, water, air, and marsh gas. Also define specific gravity, horsepower, tensile strength and factor of safety. 15
2. What would be the safe working load for a plough steel rope $\frac{7}{8}$ inches in diameter? 15

3. A slope is 4,000 feet long with an average dip of 20 degrees. What would be the horse-power of the engine necessary to haul 1,000 tons of coal up this slope in 8 hours? 25
4. In what time can an engine 40 effective horse-power pump 4,000 cubic feet of water from a depth of 360 feet? 20
5. Define the terms "stress," "strain" and "elasticity." 20
6. A beam supported at both ends will break if a load of six tons is placed at centre; what would be its breaking load if the weight is evenly distributed? 25
7. Explain what is meant by the following terms:—"voltage," "watts," "ampere-hour." A direct current motor takes 40 amperes at 500 volts pressure for 100 hours; what horse-power is consumed? 30
8. State what precautions are necessary in the installation and use of electrical power underground. 20
9. What type of mechanical coal-cutter would you install in a seam with the following section: Coal 3' 6", hard shale 6", coal 1' 6", the roof being fairly strong? Describe the machine and its operation. 30

SECOND CLASS CERTIFICATES.

Marks Obtainable, 200.

Marks Required, 100.

*Paper No. 1.**Time---Three Hours.*

THE MINES ACT.

Values.

1. What are the general and special provisions of the Act regarding the appointment and duties of an Overman? 25
2. Assuming you are Overman at a mine entered by a shaft in which there are four splits, write a copy as required by the Act of an imaginary record of the weekly air measurements. 35
3. What are the provisions of the Act regarding the use and care of explosives underground? 35
4. What are the report books which an Overman has to initial daily? 15
5. What are the provisions of the Act regarding a workman making a cartridge underground? 15
6. What notices have to be posted at a mine under the Electricity Rules? 15
7. What are the requirements regarding (a) shot-firing, (b) signalling, as contained in the Electricity Rules? 15
8. What are the requirements of the Act regarding (a) stoppings, (b) fences? 15

- | | |
|--|----|
| 9. What are the general provisions of the Act regarding safety lamps? | 15 |
| 10. What are the special provisions of the Act regarding safety lamps? | 15 |

SECOND CLASS CERTIFICATES.

Marks Obtainable, 100.

Marks Required, 50.

*Paper No. 2.**Time---One and one-half Hours.***VENTILATION.***Values.*

- | | |
|--|----|
| 1. How may the water gauge be used to ascertain the condition of the airways in mines? | 10 |
| 2. How would you find the mean velocity of an air current? | 10 |
| 3. What is meant by the term "splitting the air current"? How can it be used to advantage in mine ventilation? | 15 |
| 4. State the law of diffusion of gases. | 10 |
| 5. The water gauge in a mine reads 2.5 inches; the engine running the fan is developing 60 horse-power. What quantity of air is circulating? | 15 |
| 6. Give the composition of CO. How is it generated underground? What percentage is fatal to life? | 10 |
| 7. If the ventilation of a mine is insufficient, how may be it be increased without increasing the power? | 10 |
| 8. Show by sketch where you would place the fan (a) at the top of a shaft, or (b) at the mouth of a drift opening; and how would you connect it with the shaft or drift? | 20 |

SECOND CLASS CERTIFICATES.

Marks Obtainable, 100.

Marks Required, 50.

*Paper No. 3.**Time---One and one-half Hours.***EXPLOSIONS, UNDERGROUND FIRES
AND INUNDATIONS.***Values.*

- | | |
|--|----|
| 1. State your views as to the causes of explosions in coal mines and what precautions you would adopt to prevent them. | 20 |
| 2. Humidity tests show that the percentage of saturation in the intake air is 40, and the return air 90. Parts of the mine are dry and dusty. What action would you take in a case of this kind? | 15 |
| 3. What precautions would you take against gob fires in a mine worked on the long wall system where the mining is done by machines and the coal is subject to spontaneous combustion? | 15 |

4. Describe the training required to fit a man for service on rescue work when it is necessary to wear self-contained breathing apparatus. 15
5. In entering a mine after an explosion, what is the first precaution you would take? 20
6. In what parts of a mine are accumulations of coal dust more dangerous than others and why? 15

SECOND CLASS CERTIFICATES.

Marks Obtainable, 100.

Marks Required, 50.

*Paper No. 4.**Time---One and one-half Hours.***SURVEYING.***Values.*

1. Plot the following survey on a scale of 1" to 100 feet.

	Bearing	Distance in feet	
1.	N85½°E	125	
2.	N17¼°E	168	
3.	S89°E	97	
4.	S7¾°W	150	20
2. What is the area of a circle 7 ft. 6 ins. in diameter? Find the area of a triangle with a 35 foot base, the perpendicular height of which is 40 feet. 15
3. A mine map shows that at one point in an entry the elevation is 742.5 feet and at another point 100 yards distant it is 748.5 feet. What is the average grade between these two points (a) expressed in per centage (b) expressed in inches per yard? 15
4. If rails cost \$50.00 per ton, what would be the cost of the rails used in laying a single track of 16 pound rails in an entry half a mile in length? 20
5. What quantity of water is contained in a sump 100 feet in length, 7 ft. 6 ins. in width and 5 ft. 3 ins. in depth? 15
6. Describe fully all the operations necessary in making a mine map to comply with The Mines Act. 15

SECOND CLASS CERTIFICATES.

Marks Obtainable, 100.

Marks Required, 50.

*Paper No. 5.**Time---One and one-half Hours.***MACHINERY.***Values.*

1. What is the total pressure at the bottom of a pipe full of water 10 inches in diameter and 600 feet high? 10
2. Describe the danger that attends the use of electricity in and about coal mines and the safeguards necessary. 15

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|--|----|
| 3. Define the terms "force," "work," "foot-pound" and "horse-power." | 20 |
| 4. Describe how you would examine a steel wire hoisting or haulage rope, and mention where defects are most likely to be found. How would you protect the rope in a wet shaft or slope? | 15 |
| 5. Sketch and describe a detaching hook, and show how it is connected to the cage. | 20 |
| 6. Water accumulates at the rate of 200 gallons per minute at the foot of a shaft 600 feet deep. Power for pumping is available for eight hours in the twenty-four. What will be the horse-power of the pump required? | 20 |

SECOND CLASS CERTIFICATES.

Marks Obtainable, 200.

Marks Required, 100.

*Paper No. 6.**Time---Three Hours.***PRACTICAL WORK.***Values.*

- | | |
|--|----|
| 1. What are the causes of miss-fires in shaft sinking? Sketch a correct and also an incorrect method of joining the detonator wires to the shot-firing cable. | 30 |
| 2. A double compartment shaft 8' by 16' in the clear is to be sunk 300 feet through solid ground. Describe in detail the work and construction for say, a distance of 12 feet at a depth of 150 feet. Give dimensions of timber and sketches of details. | 30 |
| 3. Describe and illustrate by means of sketches how an air-crossing is constructed over a main haulage road. | 25 |
| 4. A place is approaching old workings containing water. How would you work it having due regard to safety? Describe some method whereby you could control the flow of water through a bore hole. | 30 |
| 5. When is it necessary to notch timber? Sketch and describe the correct and incorrect method of making two notches with which you are acquainted. Show by sketches the effect of improper notching on the life of mine timber. | 25 |
| 6. Sketch and describe a mine or a district of a mine with which you are familiar. State number of men employed in each capacity, tons of coal produced and amount of timber used per day. Criticise the method of work, pointing out the good or bad features as the case may be. | 35 |
| 7. Describe the operations in advancing a working place in a long wall face. | 25 |

WAGES.

The scale of wages paid in the Province at the end of the year 1915, shows increases in some instances over the wages paid in previous years.

The general wage schedule now being paid is as follows:

OUTSIDE WAGES.

Bottom Man	\$2.89 per day, 10 hrs.
Slate pickers (boys)	1.37 per day, 10 hrs.
Slate pickers (men)	2.47 per day, 10 hrs.
Car oilers (men)	2.47 per day, 10 hrs.
Car oilers (boys)	1.65 per day, 10 hrs.
Tally boys	1.37 per day, 10 hrs.
Teamsters	2.89 per day, 10 hrs.
Blacksmiths	3.85 per day, 10 hrs.
Blacksmiths' helpers	2.90 per day, 10 hrs.
Carpenters	3.85 per day, 10 hrs.
Carpenters' helpers	2.90 per day, 10 hrs.
Power house engineers	4.40 per day, 12 hrs.
Power house engineers	3.40 per day, 8 hrs.
Fan men	2.90 per day, 12 hrs.
Hoisting engineers	3.20 per day, 8 hrs.
Hoisting engineers	3.78 per day, 10 hrs.
Hoisting engineers	4.40 per day, 12 hrs.
Incline engineers	3.40 per day, 10 hrs.
Tail rope engineers	3.63 per day, 8 hrs.
Tail rope engineers	3.85 per day, 10 hrs.
Endless rope engineers	3.30 per day, 10 hrs.
Box car loader engineer	3.40 per day, 10 hrs.
Tipple engineer	3.40 per day, 10 hrs.
Screen engine tender	2.65 per day, 10 hrs.
Locomotive engineer	3.40 per day, 10 hrs.
Locomotive switchman	3.00 per day, 10 hrs.
Fireman	2.89 per day, 8 hrs.
Fireman	3.37 per day, 10 hrs.
Fireman	3.85 per day, 12 hrs.
Fireman's helper	2.65 per day, 10 hrs.
Water tender	3.25 per day, 12 hrs.
Railway car handler	2.60 per day, 10 hrs.
Tipple dumper (man)	2.89 per day, 10 hrs.
Tipple dumper's helpers	2.64 per day, 10 hrs.
Tipple dumper (boy)	1.65 per day, 10 hrs.
Top cagers	2.64 per day, 10 hrs.
Car repairer	3.40 per day, 10 hrs.
Car repairer's helper	2.90 per day, 10 hrs.
Breaker engineer	3.40 per day, 10 hrs.
Fan fireman	3.40 per day, 12 hrs.
Lampman (depending upon number of lamps and skill of man)	\$2.47 to 2.89 per day, 8 hrs.
Lampman (depending upon number of lamps and skill of man)	\$2.47 to 3.40 per day, 12 hrs.
Machinists	3.85 per day, 10 hrs.
Machinist's helper	2.90 per day, 10 hrs.
Ashman	2.50 per day, 10 hrs.
Ashman	2.89 per day, 12 hrs.
Wiper (man)	2.89 per day, 12 hrs.
Coupler (man)	2.47 per day, 10 hrs.
Coupler (boy)	1.65 per day, 10 hrs.
Breaker oiler	2.89 per day, 11 hrs.
Washer or tipple oiler	2.89 per day, 11 hrs.
Breaker picker boss	2.89 per day, 10 hrs.
Timber framer	3.40 per day, 10 hrs.
Timber sawyer	2.64 per day, 10 hrs.
Box car shoveller	2.89 per day, 10 hrs.
Breaker platform boss	2.89 per day, 10 hrs.

Breaker platform men	2.60 per day, 10 hrs.
Breaker screen men	2.47 per day, 10 hrs.
Rock bank men	2.47 per day, 10 hrs.
Dirt bank men	2.47 per day, 10 hrs.
Finisher after box car loader	2.47 per day, 10 hrs.
All other labour not classified	2.47 per day, 10 hrs.

BEE HIVE COKE OVENS

Levelling and drawing (6½ ton charge) per oven	\$1.00
Levelling and drawing (5 ton charge) per oven	.80
Loading into box or open cars (over 200 tons per month) per ton	.17
Loading into box or open cars (less than 200 tons per month) per ton	.16
Steam locomotive engineer	\$3.40 per day, 10 hrs.
Motorman	3.18 per day, 10 hrs.
Larryman	2.47 per day, 10 hrs.
Plasterers	2.47 per day, 10 hrs.
Carters and cleaners	2.47 per day, 10 hrs.
All other labour	2.47 per day, 10 hrs.

BELGIAN COKE OVENS

Ram engine man	\$3.40 per day, 10 hrs.
Chargers	2.89 per day, 10 hrs.
Clayers	2.89 per day, 10 hrs.
Drawers	2.89 per day, 10 hrs.
Loaders	2.60 per day, 10 hrs.

BRIQUETTE PLANT

Engineer	\$3.86 per day, 12 hrs.
Briquetter	3.97 per day, 12 hrs.
Briquetter's helper	3.40 per day, 12 hrs.
Tar melter	2.89 per day, 12 hrs.
Labourers	2.89 per day, 12 hrs.

INSIDE WAGES

Shot lighter	\$3.30 per day, 8 hrs.
Bratticeman	3.30 per day, 8 hrs.
Bratticeman's helper	2.75 per day, 8 hrs.
Timberman	3.30 per day, 8 hrs.
Timberman's helper	2.75 per day, 8 hrs.
Tracklayers	3.30 per day, 8 hrs.
Tracklayer's helper	2.75 per day, 8 hrs.
Motorman	3.05 per day, 8 hrs.
Motorman's helper	2.75 per day, 8 hrs.
Locomotive engineer	3.05 per day, 8 hrs.
Locomotive switchman	2.75 per day, 8 hrs.
Drivers	3.03 per day, 8 hrs.
Drivers (wet places)	3.30 per day, 8 hrs.
Drivers (spike team)	3.50 per day, 8 hrs.
Couplers (men)	2.75 per day, 8 hrs.
Couplers (boys)	1.65 per day, 8 hrs.
Switch boys	\$1.37 to 1.65 per day, 8 hrs.
Door boys	1.10 per day, 8 hrs.
Rope riders	3.03 per day, 8 hrs.
Main and tail rope riders	3.30 per day, 8 hrs.
Pushers	2.75 per day, 8 hrs.
Buckers	2.75 per day, 8 hrs.
Loaders	2.75 per day, 8 hrs.
Miners	3.30 per day, 8 hrs.
Miners (wet places)	3.75 per day, 8 hrs.
Rock miners	3.75 per day, 8 hrs.
Timber handlers	3.03 per day, 8 hrs.
Cagers, slope and incline	2.75 per day, 8 hrs.
Cagers (shaft)	3.30 per day, 8 hrs.
Machinemmen	3.75 per day, 8 hrs.
Machinemmen's helper	3.30 per day, 8 hrs.

DEPARTMENT OF PUBLIC WORKS.

Pumpmen	2.75 per day, 8 hrs.
Pumpmen (Galt Mines)	3.20 per day, 8 hrs.
Hoistmen \$3.03 to	3.30 per day, 8 hrs.
Drivers (boys) \$1.65 to	2.75 per day, 8 hrs.
Grippers	2.75 per day, 8 hrs.
Grippers (boys) \$1.65 to	2.75 per day, 8 hrs.
Pipe fitters' helpers	2.75 per day, 8 hrs.
Pick carriers \$1.37 to	2.75 per day, 8 hrs.
Clutchmen	3.30 per day, 8 hrs.
Rollermen	2.75 per day, 8 hrs.
All other labour not classified	2.75 per day, 8 hrs.
Miners on contract average from \$3.50 to \$6.00	per day, 8 hours.

This scale of wages is taken from an agreement made with representatives of approximately seventy per cent. of men employed in mines in the Province and went into force on April 1st, 1915, and will continue in force until March 31st, 1917.

Your obedient servant,

JOHN T. STIRLING,

Chief Inspector of Mines.

THE STEAM BOILERS BRANCH

Inside Staff— { Chief Inspector of Boilers.
 { One Clerk in Charge.
 { One Clerk and Stenographer.

Outside Staff— { Five District Inspectors.
 { Three Assistant Inspectors.

During the year 1915, weather conditions greatly hindered the work of the inspectors, especially so during the months usually devoted to the inspection of agricultural boilers, consequent upon the heavy condition of roads and trails in the country districts. Notwithstanding these drawbacks, a very creditable showing has been made in the number of boilers inspected.

The district inspectors all report much of their time taken up at headquarters attending to visitors desiring information and advice relative to boilers, installation of new, and changes to existing, plants, engineers' certificates, etc. This cannot very well be avoided, as these men's services being at the disposal of all concerned in matters relating to the installation and operation of steam boilers and engines, time so occupied invariably results in a clearer understanding of the requirements in the Act and Regulations. Attention given to callers in this way is greatly appreciated, particularly by owners of plants, who often avoid unnecessary expense and loss of time through being able to consult with and obtain practical advice from inspectors relative to layout of plants, etc.

Since the latter part of 1914, the inspection of low pressure heating boilers has materially added to the duties of the inspectors and takes up a considerable portion of time for which no adequate returns in the shape of revenue can be shown. Consequently, it is recommended that the Act be changed in connection with low pressure plants carrying 20 pounds pressure or under, making inspectors' visits optional after the initial inspection has been made and installation found satisfactory in every way, it being the opinion of the inspectors that an annual inspection of such plants would not then be necessary.

The fact cannot be too strongly emphasized that architects, when making provision for heating plants in large buildings, generally make this a matter of only superficial consideration, the plants usually being found relegated to the darkest and least accessible corner of the basement, often below the floor and sewer level, with little or no facilities for repairing, blowing out or cleaning the boilers, and, in the majority of cases, the owner, either through indifference or lack of knowledge, has hitherto remained in ignorance of the fact that a boiler kept clean and well cared for greatly lessens the coal consumption. As a matter of fact, when engaging men whose many duties include the care of a boiler, good janitors, rather than efficient firemen, are sought after.

A total of 1,946 boilers were inspected during the year, including 285 contained in low pressure heating plants.

An explosion of a small cast iron heating table used for cooking rubber occurred, which drew the attention of the Department to the danger of accidents common to these types of generators through incompetent handling. Instructions have been issued to the inspectors to pay attention to these small boilers in the future.

Two high pressure boilers were reported as being damaged by bagging of courses through an accumulation of excessive scale. Three low pressure heating boilers were also damaged through careless handling. Six boilers were condemned as unfit for further use.

The increased acreage brought under cultivation, followed by the abundant harvest in all parts of the Province, created an unusual demand for engineers in the farming districts, and as many traction engineers have enlisted in the various regiments, while others are already in service overseas on account of the war, requests from owners of threshing outfits for permits were unusually heavy, but were in all cases met by the inspectors after having satisfied themselves that no certificated engineer could be procured.

The Spring examinations of candidates for Engineers' Certificates were held as usual in the months of March and April, at twenty-seven advertised points in the outlying districts. Results, however, in the three southern districts did not warrant the time used by the inspectors on this account, though the northern districts made a very creditable showing in the number of candidates offering.

Certificates were issued to the successful candidates as follows:

First class	7
Second class	20
Third class	116
Traction final	299
Fireman's final	50
Provisional	462
Renewal of provisional	191
Second provisional	47
Total	1102

200 permits have been issued during the year to owners of boilers in accordance with the provisions of Section 34 of The Boilers Act.

Fees collected from all sources during the year total \$16,041.30.

For neglect of duty two engineers had their certificates suspended, one for twelve and the other for twenty-four months.

Convictions were obtained in twelve cases of prosecution for violation of The Boilers Act.

The five autos in use by the inspectors made a total of 22,415 miles during the year, at an average cost of 7.6 cents per mile.

A new Ford car was purchased in the month of October last to replace the one used by Inspector Hodges at Medicine Hat, the old car being transferred to another branch after four years' continuous service, making 18,000 miles at a cost of 8.25 cents per mile.

Only 63 designs of boilers and accessories have been submitted for survey during the year, consequent upon lack of business

generally, together with the fact that most manufacturers have already registered designs with the Department in previous years.

While no fatalities due to boiler explosions have occurred, we have to report two lives lost through men being caught in the shafting of the machinery, while one man lost an eye from a bursting gauge glass.

The names and addresses of the Chief, District and Assistant Inspectors are given below:

Joseph Buxton	Edmonton
D. Fraser	Edmonton
Nat. Marshall	Lethbridge
E. S. Hodges	Medicine Hat
W. Gray	Calgary
John Douglas	Red Deer
J. F. Cargill	Lethbridge
J. H. Mainwaring	Edmonton
A. Dick	Calgary

A schedule of certificates issued and fees collected, inspectors' annual reports, list of manufacturers, and list of final certificates issued to December 31st, are appended:

	1914	1915
Number of Certificates issued for boilers inspected	1785	1946
Number of advertised examinations for engineers held	58	32
Number of First Class Certificates issued	9	7
Number of Second Class Certificates issued	45	20
Number of Third Class Certificates issued	182	116
Number of Traction Final Certificates issued	212	209
Number of Firemen's Final Certificates issued	30	50
Number of Provisional Certificates issued	519	462
Number of Renewals of Provisional Certificates	158	191
Number of Second Provisional Certificates issued	42	47
Number of Permits issued	165	200

FEEES COLLECTED

For inspection of boilers	\$ 8,305.00	\$ 9,058.00
For special inspection of boilers, etc.	591.05	455.80
For examination of engineers for Final Certificates	2,512.50	2,045.00
For Provisional Certificates	2,590.00	2,285.00
For renewal of Provisional Certificates	395.00	478.00
For Second Provisional Certificates	200.00	235.00
For Permits	825.00	1,000.00
For Survey of Drawings	1,077.00	484.50
	<u>\$16,495.55</u>	<u>\$16,041.30</u>

EXPENDITURE

For the year ending December 31st, 1915, in connection with the administration of The Boilers Act	\$28,070.45
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A consolidated summary, compiled from the inspectors' reports, showing the total number of defects found in boilers examined during the year:

DEFECTS IN	Hor. Tub.	Hor. Fur.	Ret. Tub.	Loco. F.Box	Vert. Tub.	Water Tube	Total
Shell and drum	35	12	1	8	3	7	66
Front tube sheet	6			17	2		25
Back tube sheet	6		2	3			11
Top tube sheet					7		7
Bottom tube sheet					2		2
Firebox side sheet (inside) ..			1	42	1		44
Firebox side sheet (outside) ..				1			1
Crown sheet				109			109
Saddle sheet				1			1
Inside W. B. sheet				34			34
Outside W. B. sheet				2			2
Rack sheet				12			12
Face plate				1			1
Throat sheet							
Foundation and door rings ..				5	1		6
Stay bolts				41			41
Crown stays				17			17
Longitudinal stays	8			3			11
Leaky seams	10			2	1	2	15
Rivets	6	2		11			19
Main flues		2	3				5
Tubes	23	4		35	19	25	106
Hand holes and manholes ..	4	1		12	5		22
Studs and bracket (attach) ..	3			37	2		42
Safety valves	21	2	4	87	11	3	128
Steam gauges	2	2	1	63	4		72
Water gauge fittings	45	3	5	415	9	6	483
Blow down	39	6	6	101	10	2	164
Fusible plug	37	1	5	118	8	2	171
Other fittings	26	3	4	162	3	6	204
Settings	15			4			19
Heavy scale	30	4		15	1	1	51
Feed arrangement	16	5	3	60	5	3	92
Steam piping and supports ..	13			7	3		23
Hand railing for fly wheels ..	5				1	2	8
Switchboards, etc.	3					1	4
Total	353	47	35	1425	98	60	2018

The following is a complete list of manufacturers whose designs for boilers and boiler accessories have been submitted to and approved by the department.

MANUFACTURERS OF BOILERS.

Canada.

American-Abell Co., Toronto, Ontario.
 Bell (Robert) Co., Seaforth, Ontario.
 Beatty (M.) & Son, Welland, Ontario.
 Berg Manufacturing Co., Toronto, Ontario.
 Caledonian Ironworks, Montreal.
 Canada Iron Corporation, Ltd., Midland, Ontario.
 Canada Foundry Company, Toronto, Ontario.
 Canadian Allis-Chalmers, Ltd., Toronto, Ontario.
 Canadian Locomotive Works, Kingston, Ontario.

Doty Engine Works, Goderich, Ontario.
 Dominion Bridge Co., Montreal, P.Q.
 Fraser & Chalmers Co., Montreal, P.Q.
 Grand Trunk Pacific Railway Co., Winnipeg, Manitoba.
 Goldie & McCulloch, Ltd., Galt, Ontario.
 Inglis (John) Co., Ltd., Toronto, Ontario.
 International Engineering Works, Ltd., Amherst, N.S.
 Jenckes Machine Co., Ltd., St. Catharines, Ontario.
 Leonard (E) & Sons, London, Ontario.
 Marsh & Henthorn, Ltd., Belleville, Ontario.
 Montreal Locomotive Works, Montreal.
 Matheson (I.) & Co., New Glasgow, N.S.
 Macdonald (The) Thresher Co., Stratford, Ontario.
 Napanee Iron Works, Napanee, Ontario.
 Polson Iron Works, Toronto, Ontario.
 Robb Engineering Co., Amherst, N.S.
 Sawyer-Massey Co., Ltd., Hamilton, Ontario.
 Vulcan Iron Works, Winnipeg, Manitoba.
 Waterous (The) Engine Co., Ltd., Brantford, Ontario.
 White (George) & Sons, Ltd., London, Ontario.
 Waterloo Manufacturing Company, Waterloo, Ontario.
 Western Drydock & Shipbuilding Company, Port Arthur, Ontario.

Great Britain.

Babcock & Wilcox, Ltd., London (Canadian Agency, Montreal).
 Fowler (John) & Co., Leeds, Yorkshire.
 Lubecker (The) Machine and Manufacturing Co., London, England.
 Robey & Co., Limited, Lincoln, England.
 Rushton Proctor Co., Lincoln, England.
 Ransomes, Sims and Jeffries, Ltd., Ipswich.

United States.

American Hoist and Derrick Co., St. Paul, Minn.
 Aultman & Taylor Co., Mansfield, Ohio.
 Avery Co., Peoria, Ill.
 Broderick (The) Co., Muncie, Ind.
 Buffalo Steam Road Roller Co., Springfield, Ohio.
 Bucyrus Co., Ltd., Milwaukee, Wis.
 Bigelow Company, New Haven, Conn.
 Browning (The) Co., Cleveland, Ohio.
 Clyde Iron Works, Duluth, Minn.
 Case (J. I.) Threshing Co., Racine, Wis.
 Clark Engine & Boiler Co., Kalamazoo, Mich.
 Duluth Boiler Works, Duluth, Minn.
 Davenport Locomotive Works, Davenport, Iowa.
 Erie City Iron Works, Erie, Pa.
 Emerson Brantingham Co., Columbus, Ind.
 Freeman (S.) & Sons, Racine, Wis.
 Farquhar (A. B.) Co., York, Pa.
 Frost Manufacturing Co., Galesburg, Ill.
 Garr, Scott Co., Richmond, Ind.
 International Boiler Works, East Stroudsburg, Pa.
 Industrial Works, Bay City, Mich.
 Johnson Bros., Ferrysburg, Mich.
 Keystone Driller Co., Beaver Falls, Pa.
 Kelly Springfield Road Roller Co., Springfield, Ohio.
 Leffel (J.) & Co., Springfield, Ohio.
 Marion Steam Shovel Co., Marion, Ohio (Canadian Agents, F. H. Hopkins & Co., Montreal).
 Muskegon Boiler Works, Muskegon.
 Minneapolis Thresher Co., Hopkins, Minn.
 Nichols & Sheppard Co., Battle Creek, Mich.
 Oil Well Supply Co., Pittsburg, Pa.
 Orr and Sembower, Reading, Pa.
 Porter (H. K.) Co., Pittsburg, Pa.
 Reeves & Company, Columbus, Ind.
 Rumley Co., La Porte, Ind.

Schwab-Lazotte Co., Milwaukee, Wis.
 Springfield Boiler and Manufacturing Co., Springfield, Ill.
 The Browning Engineering Co., Cleveland, Ohio.
 The Thew Automatic Shovel Co., Loraine, Ohio.
 The Titusville Iron Co., Titusville, Pa.
 Union Iron Works, Erie, Pa.
 The Vulcan Iron Works, Co., Wilkes-Barre, Pa.

MANUFACTURERS OF BOILER ACCESSORIES.

Canada.

Babcock & Wilcox, Ltd., Montreal, P.Q.
 Beatty (M.) & Sons, Ltd., Welland, Ontario.
 Canadian Fairbanks Co., Montreal, P.Q.
 Canadian Locomotive Works, Kingston, Ontario.
 Calgary Machinery Exchange, Calgary, Alberta.
 Engineering Specialties Co., Toronto, Ontario.
 Goldie & McCulloch Co., Ltd., Galt, Ontario.
 Jenkins Bros., Montreal, P.Q.
 Kerr Engine Company, Walkerville, Ontario.
 Leonard (E.) and Sons, Ltd., London, Ontario.
 McAvity (T.) and Sons, St. John, N.B.
 Morrison (Jas.) and Sons, Brass Mfg. Co., Toronto, Ontario.
 Niven Brothers, Lethbridge, Alberta.
 Penberthy Injector Co., Windsor, Ontario.
 Peacock Bros., Montreal, P.Q.
 Robb Engineering Co., Amherst, N.S.

Great Britain.

Blakeborough & Sons, Brighton, England.
 Glenfield and Kennedy Co., Kilmarnock, Scotland.
 Spencer (W. H.) & Company, Hitchin, England.

United States.

American Steam Gauge & Valve Co., Boston, Mass.
 Ashton Valve Co., Boston, Mass.
 Ashcroft Manufacturing Co., Chicago, Ill.
 Buckeye Iron & Brass Works, Dayton, Ohio.
 Bordo (L. J.) Co., Philadelphia, Pa.
 Best Manufacturing Co., Pittsburgh, Pa.
 Chapman Valve Manufacturing Co., Indian Orchard, Mass.
 Case (J. I.) Threshing Machine Co., Racine, Wis.
 Crosby Steam Gauge & Valve Co., Boston, Mass.
 Crane Company, Chicago, Ill.
 David (G. M.) Regulator Co., Chicago, Ill.
 Industrial Instrument Co., Foxboro, Mass.
 Huyette (P. B.) Co., Philadelphia, Pa.
 (Submitted by H. L. Pelier & Co., Montreal, P.Q.)
 Jarecki Manufacturing Co., Erie, Pa.
 Kunkle (E. B.) & Co., Fort Wayne, Ind.
 Lunkenheimer Co., Cincinnati, Ohio.
 Lonergan, (J. E.) & Co., Philadelphia, Pa.
 Marsh, (J. P.) & Co., Chicago, Ill.
 Nelson Valve Co., Philadelphia, Pa.
 National Steam Specialties Co., Chicago.
 Ohio Brass Works, Mansfield, Ohio.
 Powell (Wm.) & Co., Cincinnati, Ohio.
 Pittsburg Valve Foundry & Construction Co., Pittsburg, Pa.
 Roe Stephens Co., Detroit, Mich.
 Schafer and Budenberg, Brooklyn, N.Y.
 United States Gauge Co., New York, N.Y.
 Yarnell Waring Co., Philadelphia, Pa.

Edmonton, 5th January, 1916.

L. C. CHARLESWORTH, ESQ.,

Deputy Minister of Public Works,

Edmonton, Alta.

Sir,—I have the honour to submit to you my annual report as Chief Inspector of Boilers for the year ending December 31st, 1915, in accordance with Section 8 of The Boilers Act.

A brief resume of the work in connection with the Steam Boilers Branch shows a slight decrease in the number of stationary and contractors' boilers operated, due chiefly to the existing financial depression general throughout the country. On the other hand, the increase in the number of agricultural boilers operating in the Province has assumed such proportions that our inspectors cannot possibly cover more than two-thirds of them annually, and present indications point to still further activity amongst the farming community.

In view of the fact that all such boilers should be inspected once every year, it is fortunate that, as a result of the steps taken during the past few years to bring about and maintain a high standard of boiler regulations, the danger of accidents has been reduced to a minimum as far as the boilers are concerned, while everything possible is being done to ensure that certificates to operate boilers and engines are granted only to men in every way fitted therefor.

The inclusion of low pressure heating boilers within the provisions of the Act has necessitated the devotion by the inspectors of much time to these boilers which otherwise could have been used in inspecting high pressure outfits. The condition of heating plants generally, as found upon initial inspection, proves that some supervision of these was absolutely necessary, many plants having to be visited three or four times before everything was satisfactorily arranged and a measure of safety assured. Much has been done and more yet remains to be done in order to educate all concerned, either as owners or operators of heating boilers in large buildings regarding installation and operation, but it is hoped that after all the existing plants have been thoroughly covered, this branch of the work will not demand so much time as formerly.

During the year only 63 designs of boilers and accessories have been submitted for approval and registration, a very considerable decrease in corresponding numbers for previous years. This is explained by the fact that most of the boiler manufacturers are now engaged in turning out war munitions, and the majority of traction boilers now being shipped into the Province are from stock built to designs already approved.

There have been two fatal accidents, both of which were in the Edmonton district, and were caused not by boiler explosions but were due to the men being caught in some portion of the machinery. In one case the engineer was caught in the shafting of the machinery in the building some distance removed from the engine room. The other case being that of a fireman who was crushed between the drum and the crank of a hoisting engine.

One engineer lost an eye through the bursting of a water gauge glass, and in this connection it may be noted that as these accidents are common, the Department has now made provision that all water gauge glasses must be provided with suitable protectors to prevent the possibility of injuries through scattering of the glass, and we have already two such protectors approved which fully answer the purpose.

There have been no changes in the inspection staff during the year, but in the month of November, Inspector David Fraser, consequent upon ill health, asked for and was granted three months leave of absence. Mr. F. W. Hobson, formerly of the staff, being appointed in his place temporarily.

I have the honour to be, Sir,

Your obedient servant,

JOSEPH BUXTON,

Chief Inspector of Boilers.

Lethbridge, January 3rd, 1916.

L. C. CHARLESWORTH, Esq.,

Deputy Minister of Public Works,

Edmonton, Alta.

Sir,—I have the honour to submit to you my annual report for the year ending December 31st, 1915, in accordance with Section 8 of The Boilers Act.

The work in this district has been much the same as in former years.

Engineers' examinations were held in the Spring at four different points in this district, in addition to which the monthly examinations were held at headquarters.

The following shows the various classes of certificates recommended:

First class	2
Second class	3
Third class	10
Final Traction	30
Provisional Traction	82
Renewal of provisional certificates	6
Locomotive	1
Heating	4
Total	138

Sixteen of the candidates failed to pass the examination for the class for which they tried, but they were granted certificates of a lower grade.

A total of 215 boilers was inspected by myself during the year. Their condition was as follows:

Good	152
Fair	60
Moderate	3
Total	215

The following shows the different types of boilers inspected:

Locomotive	185
Horizontal tubular	25
Water tube	17
Robb Mumford	8
Vertical fire tube	5
Return flue	2
Total	215

In addition to the above I have visited 20 heating plants and recommended a few changes for the safer operation of the same. Out of the large number of heating boilers that are in this district, very few of them have been inspected and tested, either by the Assistant Inspector of Boilers or myself.

Correspondence to and from this office is heavy. There are also a great many personal enquiries made by individuals with reference to the requirements of The Boilers Act in connection with the entry of boilers into the Province, and also enquiries with reference to engineers' examinations, consequently a great deal of time is taken up attending to the office work.

I have to report the bulging of the first ring bottom of a horizontal return tubular boiler. This bulging was caused by grease being allowed to accumulate on the longitudinal stays until it became too heavy to adhere any longer.

There have also been five accidents to five different cast iron sectional heating boilers. In each case one of the sections gave way owing to the difference in thickness of the material and the unequal expansion of same at these points.

Under Section 6 of The Boilers Act, I made two special inspections, all expenses and fees in connection with same being paid by the owners.

In one case an almost new boiler, made to Alberta regulations, had to undergo extensive repairs. This boiler was reported to the managing director of the company to whom it belonged as being perfectly clean inside, but on removing all the doors and cleaning plugs (some of which had not been removed since the boiler was put in three months previously) I found that the damage done to the boiler was entirely due to the want of cleaning.

The other special inspection covered a set of high speed air compressing engines which I indicated to show valve setting condition of pistons.

There has been a great scarcity of engineers in this district, more especially during the threshing season, and in order to enable owners to keep their plants in operation, I issued 86 permits under Section 34 of The Boilers Act.

I am pleased to report that in this district both the owners and the engineers endeavor to carry out the requirements of The

Boilers Act. I am also pleased to be able to report that no person has been injured in this district during the year through accidents to boilers.

I have the honour to be, Sir,

Your obedient servant,

NAT. MARSHALL,

Inspector of Boilers.

District No. 1.

Lethbridge, December 31st, 1915.

L. C. CHARLESWORTH, ESQ.,

Deputy Minister of Public Works.

Edmonton, Alberta.

Sir,—I have the honour to submit to you my annual report in connection with my duties as Assistant Inspector of Boilers in No. 1 District, for the year ending December 31st, 1915, in accordance with Section 8 of The Boilers Act.

The early months of the year were occupied with the inspection of boilers at various coal mines and power plants in the Crow's Nest Pass District, and in the Spring I commenced work on the inspection of traction boilers in the districts north and east of Lethbridge. For several weeks considerable delay was occasioned by the heavy rains and snowstorms encountered at that time, but with the subsequent improvement in the weather conditions, all outside work in these districts has been overtaken.

The total number of boilers inspected by me during the year is 287, the conditions of these being as follows:

Good	198
Fair	73
Moderate	13
Condemned	3
Total	287

The foregoing comprises the following types:

Locomotive	185
Horizontal tubular	41
Water tube	16
Robb Mumford	8
Vertical dry top	11
Vertical submerged top	2
Return flue	2
Heating (steel)	6
Heating (cast iron)	16
Total	287

During the year, I have made seven special inspections of boilers at the request of the several owners, all expenses incidental thereto being paid by them in accordance with the requirements of Section 6 of The Boilers Act.

I recommended the issue of provisional certificates to four candidates, also the issue of renewal of provisional certificate to one candidate.

Twenty-three permits were granted as provided in Section 34 of The Boilers Act to owners of steam boilers who at the time were unable to secure the services of engineers holding the necessary certificates.

Although several accidents to boilers have come to my notice during the year, they have, for the most part, been of a minor nature, and I am pleased to be able to report that no personal injury to anyone has resulted from them.

I have the honour to be, Sir,

Your obedient servant,

J. F. CARGILL,

Assistant Inspector of Boilers,

No. 1 District.

Calgary, 10th January, 1916.

L. C. CHARLESWORTH,

Deputy Minister of Public Works,

Edmonton, Alberta.

Sir,—I have the honour to submit to you my annual report for the year 1915 as Inspector of Boilers, District No. 2, in accordance with Section 8 of The Boilers Act.

During the months of January and February I inspected a great many of the heating plants in this city and found a slight improvement in the working conditions.

Examinations were held at five points in the district during the month of March and in Calgary at the beginning of each month.

The number of candidates taking examination for engineers' certificates totalled 257. Fifty-two of these candidates failed to qualify for the class of certificate written for, but were granted certificates of a lower grade.

The following is a summary of the certificates recommended to be issued:

First class certificates	4
Second class certificates	6
Third class certificates	45
Traction final certificates	45
Fireman's final certificates	6
Provisional certificates	114
Renewal of provisionals	42
Total	257

A total of 138 boilers was inspected by me during the year. A summary of their condition is as follows:

Good	85
Fair	50
Poor	2
Bad	1
Total	138

Type and number of each boiler inspected:

Locomotive firebox	70
Horizontal tubular	32
Water tube	11
Vertical fire tube	16
Horizontal furnace	2
Robb Mumford patent	2
Marine (dry back)	5
Total	138

So little importance has been attached to the design and installation of many of the heating plants by the architects and engineers, it is almost impossible to make any changes in the fittings, due to the restricted size of the boiler rooms. It would be advisable to have building engineers submit blue prints of heating installations in new buildings so that many of the present mistakes could be avoided.

An explosion of a cast iron heating table used for cooking rubber, directed our attention to a type of generator which is, under certain conditions, highly dangerous. The heater in question, which was less than a foot square, was heated by means of a gas jet, and the safety valve having become inoperative, a pressure sufficient to burst it was generated. One piece was projected through the ceiling into the ceiling of the room above, another piece burst through the door and went into the back lane, while a third piece passed through the front shop window. Considering there were about ten men employed in the shop it is almost miraculous no one was killed or injured.

The sections of several cast iron heating boilers have been cracked during the year, due in most cases to shortness of water and the consequent overheating of the plates.

The owners of blocks are generally more concerned about securing a boiler attendant who will accept low wages than about securing a man with a high standard of intelligence, which accounts for the poor results obtained from, and the many accidents to, boilers in heating plants.

The annual inspection of high pressure boilers showed several horizontal tubular boilers bulged on the bottom of shell, but these were successfully repaired. The bulges could generally be attributed to the presence of heavy scale on the inside of plates and badly arranged gas installations.

Thirty-eight permits have been issued during the year to the employers under the provisions of Section 34 of The Boilers Act, to cover emergency cases where the services of qualified engineers could not be obtained.

I have no cases to report of either boiler explosion or personal injury to anyone in connection with the operation of boilers or engines.

I have the honour to be, Sir,

Your obedient servant,

WILLIAM GRAY,

Inspector of Boilers,

District No. 2.

Calgary, 10th January, 1916.

L. C. CHARLESWORTH, ESQ.,

Deputy Minister of Public Works,

Edmonton, Alberta.

Sir,—I have the honour to submit to you my annual report as Assistant Inspector of Boilers in the Calgary district for the year ending December 31st, 1915, as required by Section 8 of The Boilers Act.

In the early part of the year I made an inspection of the heating boilers in schools, churches and other public buildings. In Summer and Fall my time was taken up inspecting the traction and outlying boilers in the district. Travelling by automobile, this year, was very difficult owing to the extremely wet condition of the roads. Mileage made totals 5,858.

Many plants and contractors' boilers have not been inspected owing to their not having been in operation since last inspection.

There was one serious accident which occurred to Drumheller Coal Co.'s boiler at Drumheller. The shell and backhead were severely bulged, caused by scale lying on backhead. There being only one boiler in this plant, and as time allowed for shutting down and cleaning same is so short, the boiler was never cool enough to be examined properly. Acting on my advice the company agreed to put in an extra boiler to overcome the difficulty.

I inspected a total of 309 H. P. boilers. Of these, 301 certificates were issued. 102 heating boilers were inspected. Condition of H. P. boilers are as follows:

Good	265
Fair	42
Bad	2
Total	309

Type and number:

Locomotive	223
Horizontal tubular	35
Water tube	25
Vertical fire tube	18
Vertical submerged	1
Return flue	4
Total	309

Heating boilers, type and number :

Horizontal tubular	34
Locomotive	8
Vertical fire tube	5
Sectional boiler	55
Total	102

I am pleased to report that the heating boilers inspected, this year, are in much better condition than in the previous year.

I have no cases to report covering violations of the sections of the Act necessitating prosecution.

I am pleased to be able to state that there have been no accidents entailing personal injury to anyone connected with the operation of boilers and engines.

I have the honour to be, Sir,

Your obedient servant,

A. W. DICK,

Assistant Inspector of Boilers,

District No. 2.

Red Deer, Alberta, January 8th, 1916.

L. C. CHARLESWORTH, ESQ.,

Deputy Minister of Public Works,

Edmonton, Alberta.

Sir,—I have the honour to submit to you my annual report of the work done in District No. 3, for the year ending December 31st, 1915, in accordance with Section 8 of the Boilers Act.

From January to March 9th, I was engaged inspecting boilers which could be readily reached by rail, after which I held the advertised series of Spring Examinations for engineers at seven different points in my district, finishing at Red Deer on March 25th. During April, I inspected boilers situated along the line of the railway, and in May, the boilers in the City of Red Deer, and finished that portion of my district near Olds and Bowden which I had been unable to finish in the Fall of 1914. From June, to the 5th of November I inspected boilers from Sedgewick north to Township 48, and south to the Battle River, thence southwest to Stettler, west to Content and Blackfalds, and north to Wetaskiwin, inclusive. November and December my time was occupied inspecting boilers west of Lacombe, north to Rimbey, west of Wittenberg, south to Leslieville and then to Red Deer, inclusive, together with the new plant lately installed at the Ponoka Asylum.

Special inspections were made during the year at the request of owners at the following places: Wetaskiwin, Didsbury, Innisfail, Saunders Creek and Ponoka. These inspections greatly interfere with the regular itinerary of boiler inspections, but, as the owners

were anxious to start operating, and were perfectly willing to pay all the expenses in connection therewith, as required by Section 6 of the Boilers Act, the time occupied in this way was well spent.

Travelling during the months of June, July and August, was rather slow owing to the very heavy condition of the roads, due to the exceptionally wet season.

A total of 278 boilers was inspected by me during the year. their condition being reported as follows:

Good	193
Very fair	66
Fair	16
Condemned	3
Total	278

I also inspected the heating boilers at Didsbury, Olds and Camrose, in the early part of the year, but did not issue certificates for these. All that was done at the time was to notify the owners in writing of the necessary alterations required.

The following shows the number of the different types of boilers inspected:

HIGH PRESSURE

Loco firebox	153
Horizontal tubular	46
Vertical tubular	10
Return flue	9
Robb Mumford	6
Air receivers	4
Water tube	2
Vertical single flue	2
Digester	1
Total	233

LOW PRESSURE

Horizontal cast iron sectional	25
Horizontal tubular	11
Vertical tubular	4
Vertical cast iron sectional	2
Loco firebox	1
Horizontal tubular C.I. sectional and water tube combined	1
Total	45

Certificates were issued for 275, and three boilers were condemned. One of these was of the portable return flue type, being condemned for general corrosion; the other two were of the horizontal tubular type, one of which was condemned owing to the front head being badly corroded inside, while the other, belonging to the Saunders Creek Coal Co., was condemned on account of being badly bulged. This company had employed an amateur boiler maker to repair the boiler and he had it in such shape when I was called in to inspect, that I could do nothing but condemn the boiler, as the cost to the owners to have it properly repaired to pass inspection would have been more than the boiler was worth. I may add that in this case the company narrowly escaped having a boiler explosion, and it was fortunate that the engineer noticed the bulge in time. The boiler was secondhand, of obsolete type, and had poor facilities for cleaning out. It had been installed and operated for six days, the

engineer had taken the usual precautions with regard to blowing down, etc., and there being no evidence of negligence on the part of the engineer, no action was taken. I think that the bulge was caused by a deposit of scale on the heating surface, which was brought down by a rather too free use of compound coupled with a change of water.

I have one minor explosion to report which occurred at the Camrose Hospital. This is a hot water system, and faulty installation was the cause of the explosion. The expansion tank (which is really the safety valve on a hot water system) was installed with the overflow leading into a disused chimney, the result being that it froze up. I understand a fairly heavy fire was put on which resulted in generating sufficient pressure to burst one of the sections of the boiler. Fortunately there was no one in the basement at the time and no serious damage was done. Although we have no authority over hot water installations, I have made it a point to see that the expansion tanks in the hot water systems in my district have been correctly installed.

I have one accident to report in which Fireman Fred Faryna, of Quarrel, lost an eye through the bursting of a gauge glass.

I have had to contend with a certain amount of antagonism in the inspection of heating boilers but on explaining what wreckage and damage to property an explosion of an ordinary ranged boiler would cause (an account and photograph of which is in Power of March 30th, 1915, page 451) property owners generally have been interested to the extent of seeing that recommendations for the safety of the plant were immediately carried out.

I regret to state that I have found very little improvement in engineering intelligence among the janitors of the different schools throughout my district. Notwithstanding the fact that the heating boilers are cared for entirely by the school janitor, it appears to me that the first and only qualification sought in the janitors by the various School Boards is their ability to wield a duster and a broom. I am pleased, however, to mention one exception, in the case of the Red Deer School Board, which is keeping abreast of the times, their present janitor holding a Second Class Alberta Engineer's Certificate.

A total of 223 candidates was examined during the year for engineers' certificates; twenty-four failed to qualify but were recommended for certificates of a lower grade, while three others were advised to present themselves for examination at the expiration of twelve months.

The following shows the various classes of certificates recommended:

Second class	3
Third Class	14
Final traction	56
Provisional certificates	98
Renewal of provisional certificates	48
Fireman's final certificates	1
Total	220

Thirteen permits have been issued during the year in accordance with Section 34 of The Boilers Act, to enable employers to

keep their boilers in operation, but in all cases an affidavit was made by the employer stating it was impossible at the time to secure the services of a duly qualified engineer.

Correspondence has been heavy and takes up quite a lot of time over and above the usual routine office work.

I have no cases to report relative to violation of the Act necessitating prosecution.

I have the honour to be, Sir,

Your obedient servant,

JOHN DOUGLAS,

Dist. Inspector of Boilers,

District No. 3.

Edmonton, February 1st, 1916.

L. C. CHARLESWORTH, Esq.,

Deputy Minister of Public Works,

Edmonton, Alberta.

Sir,—I have the honour to submit to you my annual report for the year ending December 31st, 1915, in accordance with Section 8 of The Boilers Act.

The regular annual meeting of inspectors, heretofore held during the month of January, was this year dispensed with, nothing of unusual interest having arisen during the previous year to warrant the holding of a conference. We were thus able to commence our regular inspection work at once.

During the year the greater part of my work has been in the city and vicinity, with only an occasional special trip to the rural districts. These special trips were taken at the request of owners of boilers, all fees and expenses incidental thereto being paid by the parties requesting the work.

The regular Spring examinations were held at only seven points as against fifteen points during the year 1914, and resulted in a very marked falling off of candidates for engineers' certificates. In addition to these, the regular monthly examinations have been held in the Orange Hall, Edmonton South. The number of candidates examined during the year totalled 267, made up as follows:

Candidates for First class certificates	3
Candidates for Second class certificates	9
Candidates for Third class certificates	47
Candidates for Traction final certificates	70
Candidates for Provisional certificates	102
Candidates for Fireman's final certificates	36
Total	267

Sixteen of these candidates failed to qualify for the certificates written for and were granted one of a lower grade; eight applicants

Considerable difficulty was experienced by owners of agricultural boilers in securing qualified engineers for threshing purposes were refused permission to write on account of not having the necessary qualifications.

until some of the city contractors shut down their work, when the shortage in the country districts was made up by the traction engineers thus relieved from city work.

Three permits were issued under the provisions of Section 34 of the Act.

The number and condition of boilers inspected and certificates issued therefor during the year total 142, made up as follows:

Horizontal tubular	53
Locomotive	47
Vertical	16
Water tube	13
Furnace tubular	10
Return tubular	3
Total	142

Condition of boilers inspected:

Good	94
Fair	46
Poor	2
Total	142

In addition, 16 boilers were inspected for which no certificates were issued.

I have to report two fatal accidents in the district, both of which were due to the operators being caught in the machinery. No accident occurred through defects in boilers or accessories.

Several reports were received during the year respecting illegal operation of boilers, but after full investigation evidence was secured in only one instance to warrant prosecution and conviction.

I am, Sir,

Your obedient servant,

DAVID FRASER,

Dist. Inspector of Boilers,

District No. 4.

Edmonton South, January 7th, 1916.

L. C. CHARLESWORTH. ESQ.,

Deputy Minister of Public Works,

Edmonton, Alberta.

Sir,—I have the honour to submit to you my annual report in accordance with Section 8 of The Boilers Act, covering work performed as Assistant Inspector of Boilers for the Edmonton District during the year 1915.

I left Edmonton on January 11th for the purpose of inspecting all boilers along the line of the G.T.P. Railway and the Brazeau branch line, returning to Edmonton on February 9th. From this date until March 20th, I inspected boilers west of Leduc, south of the Saskatchewan River and north of the boundary line. Travelling during this period was somewhat difficult, due to bad roads incidental to the sudden breaking up of frost. The months of April and May were devoted to the inspection of boilers in and around the City of Edmonton, and in June, the district north of Edmonton and east of the C. N. Railway tracks was covered, taking in all boilers located as far north as Township 60.

On July 27th I started upon an extensive itinerary through the following territory. From Ft. Saskatchewan I made a thorough inspection of boilers north of the river, travelling as far as Township 63, in Ranges 8 and 2, in order to take in the most outlying boilers, afterwards swinging down and cross Saskatchewan River at Elk Point. Most of the outfits from Saskatchewan south shore to the north side of the G.T.P. Railway tracks and west as far as Range 11, were inspected during the threshing season. Weather conditions proved most favorable during this trip.

In addition I inspected all boilers in the town of Vegreville and closed the year's work with a special inspection trip some distance out on the A. & G. W. Railway.

The total number of boilers inspected during the year, 273, and were found to be in the following condition:

Good	183
Fair	89
Bad	1
Total	273

Types of boilers inspected:

Horizontal tubular	58
Loco. firebox	165
Vertical	28
Furnace tubular	5
Return tubular	14
Water tube	3
Total	273

Boilers inspected and certificates issued therefor.....	272
Boilers inspected and certificates issued therefor under section 5, sub-section 3	1
Total	273

Boilers inspected and no certificates issued therefor, 3.

Three other boilers were inspected but certificates withheld until the boilers have been tested after the necessary repairs ordered have been attended to.

I recommended the issue of 19 engineers' provisional certificates. Two final firemen's certificates and 9 renewals of provisional certificates together with one Second Class Certificate, the issue of which was recommended under the provisions of Section 45 of The Boilers Act.

Two permits were issued under Section 34 of The Boilers Act to owners who were unable to immediately secure the services of certificated men.

I have no cases of prosecution to report, neither have there been any fatalities in the district due to boiler explosions.

I have the honour to be, Sir,

Your obedient servant,

J. H. MAINWARING,

Asst. Inspector of Boilers,

District No. 4.

Medicine Hat, Alberta, December 31st, 1916.

L. C. CHARLESWORTH, Esq.,

Deputy Minister of Public Works,

Edmonton, Alberta.

Sir,—I have the honour to submit to you my annual report for the year ending December 31st, 1915, in accordance with Section 8 of The Boilers Act.

Engineers' examinations were held during the month of March at the most important centres of this district, in addition to which the regular monthly examinations have been held at Medicine Hat with the exception of the month of October, fifty-seven candidates in all being examined with the following results:

Third class certificates	5
Traction final certificates	9
Provisional certificates	26
Renewal of provisional certificates	12
Final fireman's certificates	1
Failed for first class certificates	1
Failed for second class certificates	1
Failed for final fireman's certificates	2
Total	57

The number of engineers presenting themselves for examination during the year is somewhat below that of previous years, due, probably, to the fact that many of the agricultural boilers were not in operation until the latter part of the year when threshing became general.

A total of 224 boilers was inspected during the year, type and condition of same being as follows:

Type:

Locomotive	127
Horizontal tubular	34
Vertical fire tube	11
Water tube	5
Steel heating	31
Cast iron heating	36
Total	244

Condition:

Good	204
Very fair	26
Fair	14
Total	244
Boilers inspected and certificates issued therefor	238
Boilers inspected and no certificates issued therefor	6

Three special inspections were made during the year at the request of owners, all fees and expenses incidental thereto being collected as per Section 6 of The Boilers Act.

During the month of September, in accordance with instructions received from the Department, I inspected a number of boilers in No. 3 District, situate between Sullivan Lake on the east, Red Deer River on the west, north to the C P Railway and south to the Hand Hills, this territory not having been visited by an inspector for two years. Boilers inspected in this district are included in the general summary.

The Ford automobile purchased in the Spring of 1912 was transferred to the Department of Public Works after four years' continual service, showing a mileage of 18,000 miles, operated at a cost of 8.25 cents per mile. The new car, furnished in the month of October, is giving excellent service.

I have no cases to report respecting the violation of the Act in connection with the illegal operation of boilers.

I am pleased to be able to report that there have been no cases of either loss of life or personal injury to anyone during the year in connection with the operation of boilers or engines in this district.

I have the honour to be, Sir,

Your obedient servant,

E. S. HODGES,

Inspector of Boilers.

District No. 6.

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
FIRST CLASS			
Archibald, Harry P.	Lethbridge	*24	Aug. 15, 1900
Altham, George H.	Lethbridge	23	Apr. 8, 1908
Aitken, Robert C.	Edmonton	15	June 29, 1907
Alexander, Harry G.	Edmonton	43	Apr. 13, 1910
Adam, James C.	Lake Louise	98	Oct. 14, 1915
Brisette, Narcisse	Morinville	*15	Mar. 28, 1899
Buxton, Joseph	Calgary	*35	Aug. 29, 1901
Birkett, Holland G.	Cardston	9	Sept. 5, 1906
Briggs, Thomas L.	Calgary	10	Sept. 27, 1906
Birrell, Andrew D.	Nanton	26	Aug. 28, 1908
Banks, Henry H.	Macleod	31	Dec. 14, 1908
Broughton, John Wm.	Red Deer	34	Mar. 17, 1909
Bailey, Henry Chas.	Edmonton	50	Feb. 15, 1911
Blackburn, Robert Neale	Edmonton	57	Feb. 10, 1912
Brown, Robert	Lundbreck	69	Jan. 15, 1913
Benson, Frank H.	N. Edmonton	78	May 3, 1913
Baron, Harry	Diamond City	94	Mar. 26, 1915
Cross, William	Calgary	*2	Mar. 28, 1899
Cooper, Watt	Canmore	6	Aug. 11, 1906
Caldwell, Robert	Edmonton	*41	Oct. 16, 1903
Cross, Isaac E.	Ponoka	*47	Oct. 15, 1904
Cope, Cuthbert E.	Edmonton	24	Apr. 22, 1908
Christie, Alexander G.	Exshaw	19	Jan. 20, 1908
Collard, Albert N.	Moose Jaw	21	Mar. 26, 1908
Carruthers, J. A.	Calgary	51	May 26, 1911
Cunningham, Wm. J.	Calgary	62	Apr. 26, 1912
Cooke, Robert Pears	Edmonton	66	June 21, 1912
Cargill, John F.	Kipp	72	Mar. 10, 1913
Croft, William	Edmonton South	97	Sept. 28, 1915
Davidson, James	Edmonton	38	Sept. 13, 1909
Davey, Edward	Medicine Hat	44	Apr. 25, 1910
Defeux, Charles Albert	Edmonton	65	June 17, 1912
Dick, Archibald	Lethbridge	64	May 18, 1912
Douglas, John H. W.	Red Deer	70	Jan. 15, 1913
Downing, Augustus	Calgary	86	Apr. 21, 1914
Evans, Dan	Edmonton	*12	Mar. 28, 1899
Ewing, David	Strathcona	36	May 3, 1909
Edwards, William	Lethbridge	48	Nov. 17, 1910
Evans, Harry W.	Anthracite	80	July 10, 1913
Elderkin, Wm. W.	Calgary	91	Aug. 22, 1914
Fraser, David	Strathcona	*20	Oct. 9, 1899
Finch, Theodore S.	Raymond	5	Aug. 10, 1906
Frieman, Manfred	Lethbridge	89	June 17, 1914
Gale, Ernest A.	Calgary (dup)	29	Dec. 11, 1908
Goellnight, Leonard E.	Hillcrest	40	Mar. 30, 1910
Gray, Adam S.	Calgary	82	Nov. 19, 1913
Gray, William G.	Lethbridge	60	Mar. 14, 1912
Griffiths, Alfred J.	Macleod	68	Dec. 17, 1912
Hindsmarsh, William	Calgary	41	Apr. 11, 1910
Hubbard, Sydney T.	Edmonton	*46	Apr. 18, 1904
Heist, William E.	Edmonton	*36	Dec. 18, 1901
Hobson, Francis W.	Strathcona	*50	Apr. 1, 1905

*Indicates Certificate was granted by North-West Territories.

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
First Class—Continued.			
Hill, John	Edmonton	25	June 29, 1908
Hargreaves, Thomas J.	Hillcrest	55	Sept. 9, 1911
Higgins, Alex.	Lethbridge	59	Mar. 14, 1912
Hodges, Elmer S.	Medicine Hat	73	Mar. 14, 1913
Holmes, Walter C.	Calgary	74	Apr. 21, 1913
Haddock, Sidney G.	Edmonton	71	Jan. 24, 1913
Henry, Walter F.	Mountain Park	88	Apr. 27, 1914
Isaac, William	Calgary	14	June 20, 1907
Jackson, John A.	Strathcona	*25	Oct. 23, 1900
Jones, Herbert W.	Bellevue	30	Dec. 11, 1908
Jacob, Arthur	Royal View	75	Apr. 23, 1913
Kelly, John	Edmonton (no record)		Dec. 3, 1905
Kearsley, George	Edmonton	8	Sept. 5, 1906
Krammer, Frank	Calgary	93	Jan. 11, 1915
Lunn, John T.	Edmonton	*53	May 26, 1905
Le Bas, Leopold C.	Calgary	90	June 20, 1914
La Voi, Frank P.	Calgary	96	Aug. 19, 1915
Moore, George	Frank	*55	July 21, 1905
Marshall, James Wm.	Calgary	20	Jan. 20, 1908
Marshall, Nathaniel	Edmonton	32	Feb. 7, 1909
Mudie, Alfred H.	Diamond City	54	Aug. 24, 1911
Mainwaring, John H.	Edmonton	58	Feb. 23, 1912
Murray, James H.	Bankhead	87	Apr. 21, 1914
McCall, James F.	Calgary	7	Aug. 11, 1906
McFee, Norman	Red Willow	*48	Nov. 22, 1904
McNaughton, Peter	Edmonton	*21	Oct. 9, 1899
McMillan, Hugh A.	Edmonton	47	Oct. 22, 1910
McMahon, William	Taber	67	Dec. 17, 1912
McCulloch, Wm. L.	Calgary	81	July 15, 1913
McLeod, Herdman	Coleman	95	Apr. 27, 1915
Niven, Robert	Lethbridge	*23	July 28, 1900
Noble, Alex. J.	Edmonton	92	Nov. 19, 1914
O'Donnell, John E.	Edmonton	37	July 5, 1909
Oliver, Ernest H.	Calgary	2	Apr. 30, 1906
Ritchie, Wm. James	Canmore	4	May 15, 1906
Rice, John H.	Calgary	1	Apr. 30, 1906
Reid, Arthur	Lethbridge	39	Jan. 22, 1910
Richardson, Mathew C.	Kipp	56	Nov. 17, 1911
Ray, Arthur Robert	Edmonton	83	Dec. 17, 1913
Scott, John	Lethbridge	*14	Mar. 28, 1899
Stapely, Tobias B.	Edmonton	*45	April 18, 1904
Stafford, David G.	Coleman	35	Mar. 30, 1909
Scott, James	Lille	22	Apr. 7, 1908
Scott, Robert	Calgary	42	Apr. 11, 1910
Simpson, William	Coleman	52	June 20, 1911
Searle, William	Coal City	53	July 13, 1911
Strom, Theodore	Calgary	63	Apr. 30, 1912
Smith, David H.	Calgary	84	Feb. 19, 1914
Stockdale, Thos. D.	Lethbridge	85	Mar. 25, 1914

*Indicates Certificate was granted by North-West Territories.

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
First Class—Continued.			
Smith, Allan James	Lethbridge	99	Dec. 13, 1915
Turgeon, Cleophas	Edmonton	*5	Mar. 28, 1899
Taylor, George R.	Strathcona	*11	Mar. 28, 1899
Turner, Ornelo H.	Calgary	*34	July 1901
Tanner, Harry P.	Taber	18	Dec. 26, 1907
Todd, William	Edmonton	33	Mar. 4, 1909
Tames, Edward	Edmonton	61	Apr. 25, 1912
Taylor, Gilbert	Edmonton	79	May 3, 1913
Verdon, Joseph B.	Calgary	49	Nov. 23, 1910
Watson, Wm. D.	Bankhead	3	May 15, 1906
Watson, John T.	Calgary	13	June 7, 1907
White, E. Lionel	Calgary	12	Apr. 6, 1907
Watson, James S.	Bankhead	46	Sept. 23, 1910
SECOND CLASS			
Anderson, C. J. B.	Calgary	*109	Feb. 7, 1901
Angus, Robert	Angus Ridge	*160	Oct. 2, 1901
Alderson, Robert	Coleman	126	Apr. 22, 1908
Adair, Fred. D.	Edmonton	30	May 10, 1906
Allworth, E. Mortimer ..	Okotoks	81	June 19, 1907
Anderson, Andrew	Calgary	208	Aug. 15, 1910
Aitkin, David	Lethbridge	212	Sept. 12, 1910
Antrobus, William	Edmonton	260	Nov. 17, 1911
Aitken, James	Lethbridge	341	Mar. 10, 1913
Adamson, Frederick J.	Coalhurst	363	Dec. 16, 1913
Abraham, W. R.	Lacombe	410	Jan. 11, 1915
Brisette, Louis	Morinville	193	Apr. 13, 1910
Bradden, Wm. T.	Strathcona	194	Apr. 13, 1910
Blamonte, Antonio	Edmonton	329	Nov. 23, 1912
Brice, Henry B.	Calgary	207	Aug. 8, 1910
Baytinheimer, George H. ...	Red Deer	*7	Sept. 4, 1899
Biery, Charles	Strathcona	*32	Mar. 9, 1900
Blatchford, K. A.	Edmonton	*88	Oct. 23, 1900
Blain, J. W.	Strathcona	*106	Dec. 31, 1900
Bannerman, James A.	Red Deer	*162	Dec. 18, 1901
Brownlow, Henry A.	Lacombe	*163	Dec. 23, 1902
Brewster, W. A.	Edmonton	*195	May 13, 1903
Bowden, H. S.	Strathcona	*198	May 13, 1903
Ballantyne, Robert	Calgary	*229	Mar. 14, 1904
Barnhouse, William	Edmonton	*244	May 26, 1904
Burkholder, Henry J.	Strathcona	*267	Oct. 15, 1904
Beamish, Crandell	Didsbury	118	Apr. 22, 1908
Bentley, Emerson D.	Medicine Hat	17	Apr. 11, 1906
Burger, M. E.	Strathcona	2	Sept. 18, 1905
Baird, James B.	Red Deer	116	Apr. 14, 1908
Bryson, William J.	Medicine Hat	178	Dec. 4, 1909
Blair, William	Lille	25	Apr. 30, 1906
Berry, Stephen	Taber	127	Apr. 22, 1908
Brill, George	Red Deer	161	Aug. 24, 1909
Brown, David	Calgary	75	May 4, 1907
Bruce, George	Lethbridge	114	Apr. 8, 1908
Bagley, William S.	Edmonton	156	June 18, 1909
Broadwell, Amos	Pincher Creek	170	Sept. 24, 1909
Bailey, Douglas A.	Calgary	173	Oct. 22, 1909
Brenton, Charles J.	Edmonton	234	Apr. 1, 1911

*Indicates Certificate was granted by North-West Territories.

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Second Class—Continued.			
Bratz, Emil	Pincher Creek	272	Dec. 19, 1911
Brooks, Fred	Edmonton	259	Nov. 10, 1911
Bailey, W. Edgar	Lethbridge	273	Dec. 19, 1911
Bodard, Alcide	Edmonton	312	Aug. 12, 1912
Bever, Otto R.	Diamond City	296	May 18, 1912
Beadle, Elkanah William ...	Edmonton	320	Sept. 25, 1912
Buchanan, Wm. E.	Nanton	353	May 15, 1913
Brennan, Fred	Edson	346	Apr. 7, 1913
Blix, John A.	Calgary	349	Apr. 21, 1913
Burchell, James	Edmonton	340	Mar. 7, 1913
Barker, John H.	Edmonton	355	June 21, 1913
Bronsema, Emanuel	Edmonton	385	Mar. 7, 1914
Barnott, Edward	Edmonton	402	Sept. 30, 1914
Butchart, Wm. Robert	Hayter	371	Mar. 18, 1914
Bradshaw, Alfred	Calgary	418	Apr. 23, 1915
Cope, Edmund G. M.	Lethbridge	*1	June 30, 1899
Conn, David	Lethbridge (dup)	181	Jan. 19, 1910
Chalmers, Walter N.	Edmonton	*51	May 28, 1900
Cullen, James E.	Calgary	*115	Feb. 20, 1901
Converse, Stephen J.	Ponoka	*192	Mar. 6, 1903
Clifford, Robert A.	Strathcona	*197	May 13, 1903
Chapman, A. B.	Red Deer	*239	Apr. 18, 1904
Callery, Frederick	Calgary (dup.)	150	Nov. 10, 1908
Coggan, Frank D.	Calgary	72	June 3, 1907
Cousins, Arthur	Calgary	24	Apr. 30, 1906
Crawford, Samuel L.	Strathcona	52	Oct. 25, 1906
Card, Caleb A.	Red Deer	53	Nov. 2, 1906
Currie, James J.	Calgary	110	Mar. 23, 1908
Cadwell, Theophilus	Calgary	105	Jan. 20, 1908
Cranston, Adam	Calgary	55	Jan. 22, 1907
Clinton, Otto M.	Edmonton	79	June 14, 1907
Collins, Fred. M.	Frank	88	July 16, 1907
Campbell, Mal. L.	Earlsville	96	Oct. 28, 1907
Cowall, Cedric A.	Red Deer	100	Dec. 5, 1907
Calder, Hector J.	Calgary	112	Mar. 23, 1908
Carr, Alva B.	Edmonton (dup.)	203	June 2, 1910
Cutting, Charles	Vermilion	130	May 7, 1908
Collard, George Lewis	Medicine Hat	152	Jan. 18, 1909
Carpenter, Wilfrid	Frank	188	Mar. 25, 1910
Cruikshanks, George	Lethbridge	185	Mar. 15, 1910
Commeysne, Florent	Edmonton	300	May 29, 1912
Candlish, William	N. Edmonton	281	Feb. 23, 1912
Craig, Hugh S.	Calgary	321	Sept. 28, 1912
Clark, Gordon	Edmonton S.	352	May 3, 1913
Costain, John H.	Edmonton	335	Feb. 12, 1913
Chapman, Harold	Carmangay	337	Feb. 19, 1913
Cameron, Walter R.	Grande Prairie	344	May 15, 1913
Cormier, Henry O.	Wetaskiwin	386	May 7, 1914
Claringbauld, Chas. A. G. ...	Millet	404	Oct. 19, 1914
Clark, James A.	Gainford	412	Feb. 12, 1915
Cockle, Hubert	Cummings	429	Dec. 13, 1915
Dozey, Charles	Frank	218	Sept. 16, 1910
Duncombe, Walter	Taber	217	Sept. 16, 1910
Donaldson, Maxwell	Lethbridge (dup.)	182	Jan. 19, 1910
Doughty, James	Calgary	*143	July 25, 1901
Dresser, Bertram W.	Wetaskiwin	*261	Oct. 15, 1904
Drader, John A.	Pincher Creek	*290	Dec. 30, 1904

*Indicates Certificate was granted by North-West Territories.

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Second Class—Continued.			
Dean, David	Calgary	*298	Mar. 16, 1905
Drees, Max L.	Edmonton (dup.) ..	*269	Nov. 30, 1905
Danner, Clifford	Lacombe	22	Apr. 25, 1906
Duncan, Andrew, Sr.	Edmonton	129	May 7, 1908
Dick, Wm.	High River	57	Jan. 14, 1907
Duncan, Andrew, Jr.	Edmonton	139	Sept. 18, 1908
Dunbar, Henry C.	Edmonton	123	Apr. 22, 1908
Donaldson, Samuel	Lethbridge	164	Sept. 15, 1909
Daley, William	Strathcona	163	Aug. 27, 1909
Dowsett, Nathaniel	Frank	228	Mar. 7, 1911
Davies, Samuel	Elcan	274	Dec. 19, 1911
Davidson, Eric	Calgary	298	May 22, 1912
Davis, John B.	Edmonton	362	Nov. 11, 1913
Dodd, James	Edmonton	356	Aug. 2, 1913
Drummond, John W.	Calgary	354	May 19, 1913
Duffy, James T.	Strathmore	380	Apr. 21, 1914
Defleux, Osmond Terence ..	Edmonton S	422	May 7, 1915
Dennison, John Reid	Eanff	426	Nov. 19, 1915
Emery, Ray C.	Strathcona	*264	Oct. 15, 1904
Evans, William	Frank	7	Sept. 18, 1905
Eby, Josiah S.	Didsbury	95	Oct. 24, 1907
Evans, George A.	Raymond	209	Aug. 30, 1910
Edmonds, Thomas J.	Edmonton	231	Mar. 20, 1911
Eldridge, James Thomas ..	Passburg	285	Mar. 19, 1912
Ellis, John W.	Edmonton	406	Nov. 19, 1914
Emmericks, John J.	Gleichen	374	Apr. 6, 1914
Emberston, Julius A.	Edmonton	369	Feb. 16, 1914
Finch, Robert H.	Calgary	*184	Oct. 10, 1902
Fraser, William	Strathcona	*265	Oct. 18, 1904
Frame, James F.	Lethbridge	*219	Oct. 6, 1903
Fraser, Charles	Okotoks	397	July 31, 1914
Fidler, J. J.	Calgary (dup.)	294	May 7, 1912
Fleetwood, Howard A.	Edmonton	*262	Oct. 15, 1904
Fisk, James George	Fort Saskatchewan ..	*307	Apr. 14, 1905
Faulkner, Jos. W.	Lundbreck	42	Aug. 11, 1906
Flan, James Robert	Calgary	85	July 16, 1907
Foote, William	Pincher Creek	87	July 16, 1907
Foster, John Thomas	Calgary	97	Nov. 14, 1907
Foster, Riley	Magrath	297	May 18, 1912
Ferguson, Llewellyn W.	Strathcona	301	June 28, 1912
Fabian, Henry B.	Tofield	311	July 23, 1912
Ferguson, Ernest G.	Fort Saskatchewan ..	383	Apr. 27, 1914
Fennell, Wm. H.	Calgary	396	July 18, 1914
Grieve, David	Calgary	*111	Feb. 7, 1901
Griffiths, W. H.	Anthracite	31	May 14, 1906
Garneau, Alexander	Strathcona	*266	Oct. 15, 1904
Grieve, William	Calgary	*276	Oct. 28, 1904
Gibbs, Morley C.	Calgary	297	Mar. 16, 1905
Ginter, William C.	Edmonton	18	Apr. 11, 1906
Garner, Anthony	Bankhead	33	May 14, 1906
Godson, William	Bankhead	83	June 26, 1907
Good, William	Calgary	134	Aug. 6, 1908
Going, Philip S.	Mountain View	238	Apr. 24, 1911
Graves, James H.	Calgary	229	Mar. 7, 1911
Grant, Alex.	Calgary	250	Sept. 8, 1911
Galloway, Alex.	Medicine Hat	361	Oct. 10, 1913

*Indicates Certificate was granted by North-West Territories.

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Second Class—Continued.			
Going, Ernest M.	Mountain View	290	Apr. 16, 1912
Gleaves, George N.	Medicine Hat	314	Aug. 14, 1912
Gourley, Fred. R.	Strathcona	316	Aug. 26, 1912
Gretlum, Clarence	Bawlf	376	Apr. 16, 1914
Gleeson, Nathan C.	Red Deer	368	Jan. 13, 1914
Hennegar, Ed. J.	Edmonton	*19	Oct. 2, 1899
Haines, Alfred H.	Edmonton	*33	Mar. 7, 1900
Hillis, Henry	Medicine Hat	*42	Mar. 23, 1900
Hicklik, John W.	Calgary	*79	Sept. 29, 1900
Hiscon, Thomas S.	Lethbridge	*85	Sept. 29, 1900
Howell, Edward	Battleford	*137	May 30, 1901
Hillis, Thomas	Lethbridge	*172	Aug. 18, 1902
Henneg, Michael	Calgary	*183	Oct. 10, 1902
Heatley, William	Beaumont	*274	Oct. 4, 1904
Henry, Charles	Strathcona	*234	Apr. 18, 1904
Hutchings, H. E.	Edmonton	*306	Mar. 31, 1905
Hackey, Thomas H.	Evarts	117	Apr. 14, 1908
Harper, William H.	Lloydminster	10	Nov. 16, 1906
Heacock, James H.	Calgary	71	June 3, 1907
Hay, George Porter	Pincher Creek	44	Aug. 11, 1906
Howe, William Ed.	Sunny Slope	49	Sept. 8, 1906
Hendry, William A.	Edmonton	64	May 15, 1906
Harris, Samuel D.	Red Deer	62	May 7, 1907
Harris, V. H.	Red Deer	63	May 7, 1907
Hockin, John	Edmonton	91	Oct. 15, 1907
Hill, John	Strathcona	131	May 18, 1908
Hill, Marshall	Macleod	189	Mar. 21, 1910
Hilton, William H.	Taber	213	Sept. 12, 1910
Howard, Ernest E.	Conjuring Creek	201	June 1, 1910
Horn, James	Lethbridge	187	Mar. 15, 1910
Holford, Joseph C.	Lac Ste Anne ...	206	July 29, 1910
Henderson, Norman	Bellevue	230	Mar. 11, 1911
Hope, George	Royal View	286	Mar. 18, 1912
Holmes, George E.	Gleichen	351	Apr. 21, 1913
Hodginsons, Ernest G.	Calgary	350	Apr. 21, 1913
Hardy, David T.	Lethbridge	265	Jan. 12, 1914
Hawkes, William	Edmonton	420	Apr. 27, 1915
Hawkins, James Franklin ..	Red Deer	416	Apr. 16, 1915
Irwin, Lester J.	Strathcona	*270	Oct. 15, 1904
Irving, Albert E.	Calgary	56	Jan. 22, 1907
Irvine, Alexander	Calgary	165	Sept. 15, 1909
Inglis, George	Edmonton	266	Dec. 12, 1911
Innes, James L.	Edmonton	309	Dec. 17, 1914
Judd, David H.	Calgary	*161	Oct. 5, 1901
Jarratt, Edward	Strathcona	*263	Oct. 15, 1903
Jackson, James O.	Inga	60	Apr. 8, 1907
Johnson, Pontus	Lewisville	235	Apr. 5, 1911
Jack, William	Bassano	246	June 30, 1911
Jones, Joseph S.	Ponoka	347	June 17, 1913
Johnston, Albert J.	Calgary	381	Apr. 21, 1914
James, John	Elcan	372	Mar. 24, 1914
Johnston, Harry R.	Edmonton	384	Apr. 28, 1914
Jones, Thomas Sutton	Calgary	427	Nov. 20, 1915
Kerr, William	Lethbridge (dup.) ...	183	Jan. 19, 1910
Kidd, Frederick	Calgary	62	June 14, 1900

*Indicates Certificate was granted by North-West Territories.

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Second Class—Continued,			
Kowalczyck, Antoine	St. Paul de Metis	*114	Feb. 16, 1900
Kadlec, J. J.	Wetaskiwin	*236	Apr. 18, 1904
Killam, Robert C.	Red Deer	65	May 20, 1907
Keith, Edward C.	Lille	226	Dec. 8, 1910
Livingstone, James C.	Lethbridge	214	Sept. 12, 1910
Lang, James	Okotoks	*301	Mar. 17, 1905
Lacey, William R.	Calgary	*182	Oct. 10, 1902
Lamb, Herb. David	Frank	41	Aug. 11, 1906
LeBreton, Gustav A.	Edmonton	*308	Apr. 14, 1905
Lang, John	Okotoks	45	Oct. 11, 1906
Laut, John R.	Crossfield	153	Apr. 6, 1909
Lavelle, Patrick	Exshaw	149	Oct. 30, 1908
Lewis, John H.	Lethbridge	166	Sept. 15, 1909
Langstroth, Alf.	Calgary	240	May 5, 1911
Lord, Victor H.	Diamond City	244	May 26, 1911
Letcher, Richard	Hillcrest	255	Oct. 24, 1911
Libbey, Malcolm M.	Edmonton	271	Dec. 15, 1911
Laundry, Harry	Edmonton	325	Nov. 6, 1912
Large, Eugene	Frank	343	Mar. 14, 1913
Lane, Conrad M.	Edmonton	392	June 22, 1914
Leec, James Edward	Edmonton	425	Oct. 13, 1915
Moran, Austin	Lethbridge	36	Mar. 23, 1900
Marshall, Fred. Jos.	Kamloops, B. C.	*203	Aug. 14, 1903
Morrison, John C.	Gleichen	*214	Sept. 24, 1903
Mortimer, Samuel M.	Strathcona	*241	May 26, 1904
Murray, Robinson	Calgary	104	Jan. 20, 1908
Meeres, Horace	Red Deer	93	Oct. 22, 1907
Mjoiness, John A.	Medicine Hat	16	Apr. 11, 1906
Mauland, Jack	Bankhead	99	Dec. 5, 1907
Morrison, Kenneth	Coleman	20	Apr. 19, 1906
Mair, Robert B.	Strathcona	37	Aug. 8, 1906
Morgan, Thomas M.	High River	38	Aug. 7, 1906
Moore, William A.	Red Deer	137	Aug. 13, 1908
Mueller, Karl F.	Lethbridge	333	Feb. 11, 1913
Munro, Claud	Lethbridge	317	Sept. 17, 1912
Morton, Wm. Johnston	Edmonton	303	June 28, 1912
Markle, Wilbert H.	Calgary	332	Jan. 15, 1913
Macklin, John	Lethbridge	394	July 10, 1914
Maxwell, James	Edson	379	Apr. 17, 1914
Marshall, John H.	Calgary	401	Sept. 21, 1914
Miller, John	Diamond City	415	Feb. 23, 1915
McKay, Daniel	Lethbridge	*4	June 30, 1899
McGee, Thomas	White Fish L. (dup.)	113	Mar. 28, 1908
McConnell, Wm. J.	Lethbridge	*	Oct. 8, 1903
McIntyre, John	Calgary (dup.)	48	Aug. 16, 1906
McKim, Nelson	Edmonton	14	Mar. 26, 1906
McClaffin, W. G.	Ponoka	*237	Apr. 18, 1904
McCardia, Samuel	Edmonton	78	June 14, 1907
McLean, Frederick A.	Edmonton	*305	Mar. 31, 1905
McNeilly, S.	Okotoks	107	Mar. 23, 1908
McDonald, Simon	Frank	15	Mar. 28, 1906
McDonald, E. R.	Edmonton	120	Apr. 22, 1908
MacDonald, Alex.	Edmonton	119	Apr. 23, 1908
McDonald, John D.	Hillcrest	61	Apr. 18, 1907
McNeill, Neil S.	Calgary	68	May 23, 1907
McKinnon, Alex. J.	Lille	82	June 20, 1907

*Indicates Certificate was granted by North-West Territories.

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Second Class—Continued.			
McIntyre, Joseph	Taber	84	July 8, 1907
McGregor, John	Hillcrest	90	Sept. 26, 1907
McNichol, John	Exshaw	103	Jan. 3, 1908
McFayden, John C.	Edmonton	124	Apr. 22, 1908
McIndoe, William	Calgary	136	Aug. 6, 1908
McDonald, John	Lille	172	Oct. 5, 1909
McNair, Arod N.	Lethbridge	175	Nov. 13, 1909
McIvor, Wm. K.	Edmonton	196	Apr. 13, 1910
McAffer, Ronald	Medicine Hat	221	Sept. 24, 1910
McKenzie, Norman	Calgary	242	May 20, 1911
McKenzie, Harvey K.	Lethbridge	275	Dec. 19, 1911
McDonald, John A.	Calgary	327	Nov. 13, 1912
McAuley, Gus Wallace	Coleman	326	Nov. 13, 1912
McPhail, John	Bellevue	390	May 13, 1914
McLeod, Fraser	Diamond City	395	July 10, 1914
McPhee, Murdoch	Edmonton	366	Jan. 12, 1914
McLean, Myron C.	Ponoka	405	Oct. 19, 1914
McConnell, James	Drumheller	375	Apr. 6, 1914
McLean, Keith	Edmonton	403	Oct. 15, 1914
McGillivray, Colin	Lille	176	Nov. 13, 1909
Nimmons, Robert	Lethbridge	*38	Mar. 23, 1900
Nicholson, Robert John	Edmonton	67	May 20, 1907
Nuttall, Reginald	Edmonton	291	Apr. 25, 1912
Nothwang, Geo. K.	Edmonton	377	Apr. 16, 1914
Neill, Ernest R.	Edmonton	398	Aug. 10, 1914
Oxley, John	Taber	6	Sept. 18, 1905
Olson, Harold P. T.	Calgary	276	Dec. 28, 1911
O'Neil, Edward T.	Edmonton	319	Sept. 20, 1912
Oliver, Alonzo	Edmonton	336	Feb. 12, 1913
Orr, Fred	Canmore	373	Mar. 27, 1914
Parcels, Timothy P.	Red Deer	*6	Sept. 4, 1899
Payzant, Ernest M.	Edmonton	*12	Oct. 9, 1899
Pratt, George	Edmonton	*16	Oct. 9, 1899
Pearce, Abraham	Edmonton	*52	May 28, 1900
Pugh, John	Calgary	28	Apr. 30, 1906
Powers, Thomas E.	Strathcona	*246	May 26, 1904
Potter, Martin	Evarts	51	Oct. 5, 1906
Punnett, Lewis L.	Chesterwold	50	Oct. 4, 1906
Pallot, Herbert J.	Edmonton	144	Sept. 28, 1908
Payzont, H. C.	Edmonton	121	Apr. 22, 1908
Price, John	Edmonton	54	Dec. 19, 1906
Patterson, John M.	Okotoks	108	Mar. 23, 1908
Prince, John E.	Calgary	76	June 4, 1907
Purvis, John	Calgary	106	Feb. 15, 1908
Poole, Fred. P.	Strathcona	132	July 9, 1908
Pollock, Daniel R.	Calgary	151	Dec. 2, 1908
Pearson, Augustus	Bellevue	210	Sept. 7, 1910
Potter, John	Calgary	184	Mar. 7, 1910
Pitts, Wm. S.	Edmonton	180	Jan. 10, 1910
Pallot, Harold E.	Edmonton	191	Apr. 6, 1910
Payne, George	Lethbridge	223	Oct. 20, 1910
Petrie, Robert F.	Elcan	219	Sept. 16, 1910
Patterson, Samuel	Granum	254	Oct. 18, 1911
Pollitt, Nicholas T.	Taber	247	July 13, 1911
Pearce, William C.	Edmonton	249	Aug. 24, 1911
Pollock, Frederick	Edmonton	253	Sept. 9, 1911

*Indicates Certificate was granted by North-West Territories.

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Second Class—Continued.			
Palmer, John C.	Edmonton	262	Nov. 28, 1911
Paterson, J. Anderson	Edmonton	263	Nov. 29, 1911
Parken, Joseph	Carmen	288	Apr. 4, 1912
Parsons, Alfred J.	Royal City	318	Sept. 17, 1912
Pfitzeumier, Herman	Stettler	407	Nov. 19, 1914
Patrick, David	Edmonton South	421	Apr. 27, 1915
Prentice, A. Weston	High River	414	Feb. 23, 1915
Reed, R. W.	Lethbridge	*5	June 30, 1899
Richards, Henry John	Edmore	*30	Feb. 13, 1900
Rankin, Thomas Henry	Banff	*77	Sept. 29, 1900
Roberts, William B.	Fort Saskatchewan ..	*235	May 18, 1904
Ritchie, William A.	Calgary	141	Sept. 22, 1908
Rich, John H.	Calgary	69	June 3, 1907
Relton, Ole	Lethbridge	115	Apr. 8, 1908
Riddell, Arthur	Calgary	140	Sept. 22, 1908
Rice, Robert	Calgary	222	Oct. 11, 1910
Richardson, Thomas	Calgary	220	Sept. 23, 1910
Rennie, Thomas	Millet	265	Dec. 8, 1911
Ross, Dexter A.	Strathcona	306	June 28, 1912
Ryan, Harry	Frank	313	Aug. 12, 1912
Richardson, Ernest	Calgary	299	May 22, 1912
Rush, Clyde E.	Burmis	338	Feb. 19, 1913
Ronaghan, Albert H.	Vermilion	378	Apr. 16, 1914
Robin, Victor E.	Edson	367	Jan. 12, 1914
Ray, Thomas J. S.	Calgary	399	Aug. 22, 1914
Schatz, William H.	Strathcona	*17	Oct. 9, 1899
Shaw, M. W. S.	Midnapore	*27	Dec. 1, 1899
Stafford, George	Lethbridge	160	Aug. 20, 1909
Steven, Hutton	Calgary	*43	Apr. 17, 1900
Stagg, George	Calgary	*112	Feb. 7, 1901
Steven, Alfred E.	Calgary	*113	Feb. 7, 1901
Shelley, Henry James	Calgary	*116	Mar. 12, 1901
Sloan, William	Lethbridge	*169	July 30, 1902
Siemens, Peter	Anthracite	34	May 14, 1906
Stewart, John A.	Red Deer	12	Jan. 2, 1906
Shannon, James	Calgary	*223	Nov. 6, 1903
Shackleton, Thos. A.	Kamloops	*234	Nov. 14, 1903
Starkey, George L.	Ponoka	9	Nov. 2, 1905
Stokes, Robert D.	Strathcona	19	Apr. 11, 1906
Stacey, Frederick H.	Edmonton	1	Sept. 18, 1905
Shore, John P.	Edmonton	3	Sept. 18, 1905
Slingsby, Sidney	Calgary	74	June 3, 1907
Stanley, Charles H.	Bankhead	32	May 14, 1906
Sefton, Frederick	Lethbridge	39	Aug. 10, 1906
Stanley, Benj. F.	Calgary	47	Aug. 14, 1906
Syer, Thomas M.	Red Deer	94	Oct. 22, 1907
Sparber, Charles H.	Lethbridge	177	Nov. 24, 1909
Simondson, Henry	Northern	197	Apr. 13, 1910
Smith, Frederick	Coleman	215	Sept. 12, 1910
Schaumleffel, Clifford C.	Lloydminster	192	Apr. 6, 1910
Steven, John C. S.	Edmonton	204	June 22, 1910
Smith, Wm. J.	Milk River	370	Mar. 17, 1914
Scott, David S.	Coleman	256	Oct. 24, 1911
Simpson, John T.	Coleman	252	Sept. 8, 1911
Sinclair, Walter W. P.	Medicine Hat	236	Apr. 12, 1911
Saunders, Michael J.	Cardiff	267	Dec. 12, 1911
Seymour, Francis E.	Macleod	257	Oct. 24, 1911

*Indicates Certificate was granted by North-West Territories.

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Second Class—Continued.			
Stobbs, John	Lethbridge	251	Sept. 9, 1911
Sowerby, William N.	Taber	258	Oct. 24, 1911
Stephenson, John Leach ...	Lethbridge	239	Apr. 24, 1911
Stephenson, Harry	Medicine Hat	245	June 20, 1911
Singer, William George ...	Edmonton	270	Dec. 12, 1911
Stirling, James	Michel	287	Mar. 18, 1912
Spargo, John	Edmonton	277	Jan. 12, 1912
Stratton, Claude	Edmonton	310	July 22, 1912
Shaw, Thomas	Edmonton	295	May 14, 1912
Shaw, Oliver E.	Lethbridge	339	Feb. 19, 1913
Smith, Ekin H.	Edmonton	358	Sept. 25, 1913
Shearer, Arthur	Hillcrest	408	Mar. 20, 1914
Sherret, Charles	Lethbridge	391	June 17, 1914
Scarr, Claude J.	Bankhead	400	Aug. 22, 1914
Smith, Clarence	Edmonton	388	May 7, 1914
Stone, William	Calgary	419	Apr. 23, 1915
Spence, John K.	Edmonton	428	Dec. 10, 1915
Tabacchi, Stephen	Lethbridge	186	Mar. 15, 1910
Toreson, Thomas	Wetaskiwin	*31	Mar. 7, 1900
Thompkins, Peter	White Fish Lake	*98	Nov. 27, 1900
Tasker, Henry A.	Nanton	148	Oct. 15, 1908
Taddrew, Henry P.	Edmonton	29	May 10, 1906
Turner, Duncan	Edmonton	98	Nov. 26, 1907
Thorley, James	Taber	101	Dec. 26, 1907
Turner, Stephen F.	Taber	102	Dec. 26, 1907
Terry, Frank A.	Strathcona	171	Sept. 29, 1909
Taylor, Percy E.	Taber	145	Oct. 6, 1908
Thompson, James	Innisfail	162	Aug. 24, 1909
Turner, James Abbot	Taber	304	June 28, 1912
Thomas, David Rees	Lethbridge	328	Nov. 13, 1912
Todd, William	Edmonton	357	Aug. 21, 1913
Thomson, John	Edmonton South	293	June 22, 1914
Thompson, Andrew J.	Lethbridge	423	Aug. 19, 1915
Thomson, John F.	Bellevue	417	Apr. 20, 1915
Tupper, Leon H.	St. Albert	345	Mar. 26, 1913
Von Wendel, Carl	Calgary	*222	Nov. 6, 1903
Van Haast, Julius H.	Strathcona	*278	Nov. 5, 1904
Voss, Edwin E.	Fort Saskatchewan ..	128	May 7, 1908
Vincent, Robert G.	Blairmore	155	May 26, 1909
Varden, Anthony L.	Edmonton	158	July 5, 1909
Von Keekem, Barend J.	Medicine Hat	237	Apr. 12, 1911
Vaughan, Wm. Lyle	Calgary	243	May 20, 1911
Varlow, Henry John	Edmonton	268	Dec. 12, 1911
Vincent, Robert Wesley ...	Coleman	424	Sept. 15, 1915
Walker, J. B.	Lethbridge	*3	June 30, 1899
White, James	Canmore	*73	Sept. 5, 1900
Websdale, Francis	Edmonton	*139	June 21, 1901
Waldock, John G.	Medicine Hat	*170	Aug. 18, 1902
Waddell, O. S.	Edmonton	*245	May 26, 1904
Wright, George W.	Calgary	73	June 3, 1907
Wilcox, James E.	Coleman	125	Apr. 22, 1908
Williams, John	Edmonton	23	Apr. 30, 1906
Wilson, R. J.	High River	80	June 19, 1907
Webb, James F.	Exshaw	143	Sept. 22, 1908
Wilkinson, Robert	Calgary	142	Sept. 22, 1908
Walker, Rolf E.	Edmonton	205	July 16, 1910

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Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Second Class—Continued.			
Warr, Percy J. H.	Lethbridge	227	Dec. 8, 1910
Winter, Archibald	Strathcona	202	June 1, 1910
Walton, John W.	Edmonton	233	Mar. 31, 1911
Willis, Robert I.	Edmonton	269	Dec. 12, 1911
Ward, John	Edmonton	330	Dec. 13, 1912
Wood, James	Bellevue	279	Jan. 16, 1912
Will, Frank Silver	Edmonton	284	Mar. 14, 1912
Williams, Richard	Medicine Hat	289	Apr. 6, 1912
White, William	Lethbridge	305	June 28, 1912
Weir, John	Edmonton	307	June 28, 1912
Warburton, John	Spring Point	359	Oct. 17, 1913
Watson, Frederick	Bankhead	364	Dec. 17, 1913
Wright, Thomas	Calgary	342	Mar. 14, 1913
Weston, Thomas W.	Hillcrest	389	May 7, 1914
Wentz, Earl R.	Medicine Hat	382	Apr. 29, 1914
Walker, Robert B.	Edmonton South	411	Jan. 11, 1915
Walker, Thomas	Coleman	413	Feb. 15, 1915
Young, George	Lille	43	Aug. 11, 1906
Zurlinder, John	Calgary	138	Sept. 14, 1908
THIRD CLASS			
Albertson, Andrew O.	Strathcona	*135	June 25, 1901
Aikman, George	Calgary	*274	Sept. 11, 1902
Allan, Albert	Edmonton	*360	May 13, 1903
Allan, Arthur	Edmonton	*526	Apr. 18, 1904
Ascroft, Joseph	Lethbridge	*673	Nov. 24, 1904
Akey, Charles S.	Iowalta	*759	Mar. 24, 1905
Archibald, Chester H.	Wetaskiwin	2722	Apr. 16, 1914
Ambler, David	Wetaskiwin	*790	Mar. 27, 1905
Anderson, Andrew Wm.	Wetaskiwin	*794	Mar. 27, 1905
Adair, James E.	Edmonton	2052	Feb. 29, 1912
Agar, Charles	Edmonton	143	May 29, 1906
Adshead, Herb. B.	Olds	149	May 31, 1906
Anderson, John J.	Stavelly	192	Aug. 13, 1906
Alexander, J. A.	Livingstone	203	Aug. 13, 1906
Adams, David C.	Edmonton	207	Sept. 8, 1906
Auld, John	Edmonton	266	Apr. 30, 1907
Anderson, G. A.	Bowden	318	May 29, 1907
Anderson, James J.	Crossfield	324	May 29, 1907
Anstett, Frank A.	Langdon	337	June 4, 1907
Andrews, W. H.	Stewartwyn	364	June 7, 1907
Adams, Charles W.	Lacombe	367	June 7, 1907
Anderson, Henry	Rosenroll	393	June 14, 1907
Anderson, William	Killam	399	June 14, 1907
Anderson, Ed. A.	Heatherbrae	402	June 14, 1907
Ambler, George D.	Wetaskiwin	411	June 14, 1907
Allan, Harold	Calgary	563	Jan. 20, 1908
Amdahl, Theo. J.	Seven Persons	2516	Apr. 15, 1913
Archibald, Syl. C.	Ferry Bank	691	May 5, 1908
Alveberry, Fred S.	Wetaskiwin	699	May 7, 1908
Atterbury, Charles J.	Edmonton	773	Sept. 18, 1908
Asper, A.	Merna	782	Sept. 18, 1908
Ashcroft, John	Lethbridge	844	Oct. 6, 1908
Anderson, Aitken, McK.	Calgary	881	Mar. 19, 1909
Adring, Tom	Lethbridge	898	Mar. 24, 1909
Atkins, Ralph P.	New Dayton	899	Mar. 24, 1909
Aveldson, August	Sunny Slope	906	Mar. 26, 1909

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Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—Continued.

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
Annabel, Bolton A.	Claresholm	965	April 16, 1909
Anderson, Edward	Sterling	988	April 20, 1909
Aldridge, Oliver	Cardston	2119	April 2, 1912
Arrison, Orrin S.	Gleichen	1017	April 28, 1909
Anderson, Orile H.	Sterling	1109	Sept. 15, 1909
Adams, Daniel P.	Lacombe	1173	Oct. 13, 1909
Ashburner, Edward	Lethbridge	1214	Mar. 15, 1910
Alspach, Wm. L.	Stavely	1273	Mar. 29, 1910
Anderson, Axel	Granum	1280	Mar. 30, 1910
Anderson, John H.	Round Hill	1283	April 1, 1910
Atkins, C. C. L.	New Dayton	1356	April 14, 1910
Anderson, George H.	Barnwell	1367	April 15, 1910
Aaring, Ben	Burdett	1377	April 19, 1910
Allen, Ewart G.	Medicine Hat	2173	April 23, 1912
Allen, Ewart G.	Medicine Hat	1389	April 25, 1910
Ansley, Harvey R. B.	Medicine Hat	1390	April 25, 1910
Allen, Richard	Lethbridge	1421	June 11, 1910
Allan, Robert	Calgary	2527	April 21, 1913
Alger, George V.	Medicine Hat	2174	April 23, 1912
Ameson, Sigurd A.	Eagle Hill	1550	Oct. 17, 1910
Atkinson, Louis E.	Claresholm	1642	Mar. 16, 1911
Aitcheson, George	Green Lawn	1695	Mar. 30, 1911
Ainsley, Wm. G.	Bashaw	1712	April 5, 1911
Anderberg, Claus P.	Bassano	1849	June 13, 1911
Anderberg, Claus P.	Bassano	2735	April 23, 1914
Anderson, Victor	Granum	1874	July 13, 1911
Allen Richard	New Dayton	1974	Oct. 24, 1911
Allen, Richard	New Dayton	2418	Nov. 13, 1912
Atkinson, Thomas	Little Volga	1986	Nov. 10, 1911
Arm, William F.	Lethbridge	2032	Feb. 14, 1912
Anderson, Carl	Taber	2056	Mar. 13, 1912
Albert, Max	Berseker	2123	April 4, 1912
Audland, Andrew	Carlstadt	2124	April 4, 1912
Allender, Loren L.	Lille	2242	May 2, 1912
Albertson, P. L.	Edmonton	2327	July 16, 1912
Armstrong, Alex.	Red Deer	2396	Oct. 16, 1912
Allen, James Henry	Calgary	2450	Jan. 15, 1913
Antrobus, James	Coleman	2469	Feb. 19, 1913
Anderson, Frank	Calgary	2526	April 21, 1913
Adey, Frederick C.	Canmore	2679	Jan. 12, 1914
Allen, Joseph	Bankhead	2885	April 8, 1915
Alward, Robert B.	Calgary	2757	May 18, 1914
Anderson, Crist	Calgary	2796	July 18, 1914
Anderson, William	Edmonton	2808	Aug. 17, 1914
Appleby, Elmer L.	Calgary	2692	Feb. 19, 1914
Appleby, Elmer L.	Calgary	2948	Oct. 14, 1915
Aldridge, Herman	Cardston	2966	Dec. 13, 1915
Anderson, David	High River	2876	Mar. 26, 1915
Blatchford, Peter	Edmonton	*37	Nov. 28, 1899
Bawtinheimer, H. E.	Red Deer	*185	Dec. 18, 1901
Pillo, Joseph	Edmonton	*193	Dec. 18, 1901
Bernier, Alexis	Lamoureux	*205	Dec. 18, 1901
Berlinguette, Alfred	Whitford	*255	Aug. 18, 1902
Burwell, Arthur P.	Edmonton	*354	April 24, 1903
Berg, John	Fort Saskatchewan ..	*356	May 13, 1903
Bolduc, Joseph	Beaumont	*362	May 13, 1903
Bowers, Richard J.	Strathcona	*364	May 13, 1903
Briggs, M. R.	Red Deer	*371	May 13, 1903

*Indicates Certificate was granted by North-West Territories.

Schedule of Holders of Final Certificates of Qualification under
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NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
Bricker, Menno C.	Okotoks	*471	Nov. 6, 1903
Brown, Robert S.	Lamoureux	*480	Jan. 15, 1904
Burbank, Lyle A.	Calgary	*483	Feb. 10, 1904
Billow, Adolph	Canmore	*486	Mar. 14, 1904
Bailey, R. B.	Edmonton	*527	April 18, 1904
Brenton, J. R.	Edmonton	*544	April 18, 1904
Bolduc, Peter	Beaumont	*638	Oct. 15, 1904
Bevington, George E.	Strathcona	*642	Oct. 15, 1904
Brown, Thos. J.	Medicine Hat	*83	April 9, 1906
Brown, John, Jr.	Innisfail	*757	Mar. 24, 1905
Bruce, Charles R.	Lacombe	*761	Mar. 24, 1905
Blewett, Wm. G.	Mewassin	*818	April 14, 1905
Bauchin, Theophile	Legal	*204	Aug. 14, 1906
Brunelle, John	Beaumont	*821	April 14, 1905
Brodie, Wm. A.	Ponoka	*848	May 30, 1905
Blanchette, Peter	Fort Saskatchewan ..	257	Dec. 31, 1906
Bradbeer, Edward	Lethbridge	14	Sept. 16, 1905
Bilson, Wm. Jas.	Lethbridge	2513	April 9, 1913
Baker, Charles L.	East Clover Bar	27	Sept. 16, 1905
Bittner, Anton	Ponoka	56	Nov. 16, 1905
Bell, Harry	Daugh	71	Mar. 16, 1906
Baker, Thomas	Calgary	72	Mar. 19, 1906
Boote, Edward	Pine Lake	107	April 24, 1906
Bodman, John A.	Calgary	885	Mar. 19, 1909
Bartlett, Percy R.	Edmonton	142	May 29, 1906
Burns, David	Grassy Lake	170	Aug. 11, 1906
Baden, Wm. F.	High River	196	Aug. 13, 1906
Benz, August J.	Mundare	216	Sept. 13, 1906
Bates, Minor	Strathcona	2357	July 19, 1912
Brown, A. J.	Wavy Lake	233	Sept. 21, 1906
Bucher, L. W.	Wetaskiwin	273	May 15, 1907
Berg, John P.	Wetaskiwin	280	May 15, 1907
Barr, Ralph	Edmonton	286	May 15, 1907
Beggs, John	Innisfail	295	May 20, 1907
Buckton, Henry J.	Olds	302	May 23, 1907
Bugton, Ole G.	Harmattan	304	May 23, 1907
Bergen, Jacob	Didsbury	319	May 29, 1907
Bush, Frank C.	Didsbury	2804	Aug. 16, 1914
Barker, William L.	Calgary	343	June 4, 1907
Brotherston, Robert A.	Calgary	345	June 4, 1907
Barnes, Wm. J.	Calgary	346	June 4, 1907
Brown, Wilfred B.	Calgary	359	June 4, 1907
Bush, Henry	Blackfalds	366	June 7, 1907
Brereton, Thomas A.	Valley City	376	June 7, 1907
Brown, Wm. H.	Edmonton	385	June 14, 1907
Berry, Robert G.	Fort Saskatchewan ..	392	June 14, 1907
Bradbury, Arthur T.	Edberg	398	June 14, 1907
Batke, Albert L.	Ferry Point	417	June 14, 1907
Bucker, Walter L.	Mossleigh	424	June 19, 1907
Brower, Archibald B.	Pincher Creek	928	April 1, 1909
Black, Robert	Strathcona	479	July 24, 1907
Boomer, Marshall	Blackfalds	481	July 27, 1907
Bowman, Albert	Strathcona	485	Aug. 28, 1907
Brickman, Joseph T.	Fembina	495	Oct. 15, 1907
Bell, Wm. G.	Red Deer	515	Oct. 22, 1907
Bergen, Henry	Didsbury	527	Oct. 24, 1907
Burchall, Frank N.	Bluff Centre	2927	July 14, 1915
Bawslaugh, John J.	Calgary	559	Jan. 20, 1908
Burwell, Wm.	Gladys	569	Mar. 23, 1908

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Schedule of Holders of Final Certificates of Qualification under
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NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
Blair, George R.	Claresholm	570	Mar. 23, 1908
Base, John L.	Reid Hill	572	Mar. 23, 1908
Blackorby, W. G.	Claresholm	575	Mar. 23, 1908
Bowerman, Cliff	Cowley	599	April 8, 1908
Bowerman, Cliff	Cowley	1635	Mar. 15, 1911
Banfield, J. Frank	Lethbridge	626	April 9, 1908
Bryant, Percy B.	Lethbridge	627	April 9, 1908
Brown, John	Evarts	635	April 14, 1908
Becker, Waitland J.	Red Deer	636	April 14, 1908
Brubaker, Albert J.	Medicine Hat	1376	April 18, 1910
Burke, Benj. S.	Lacombe	693	May 6, 1908
Bader, Benj. H.	Lethbridge	704	May 14, 1908
Bateman, Ewart W.	Lethbridge	744	Aug. 6, 1908
Baxter, John	Red Deer	751	Sept. 3, 1908
Blacklock, Robert O.	Westward Ho	754	Sept. 8, 1908
Butts, John H.	Olds	755	Sept. 8, 1908
Brooke, Frederick C.	Olds	759	Sept. 11, 1908
Ball, Arthur	Mayville	767	Sept. 14, 1908
Burns, William	Higgins	768	Sept. 14, 1908
Bowick, Charles C.	Tofield	810	Sept. 28, 1908
Bowick, John D.	Tofield	811	Sept. 28, 1908
Brown, John	Kitscoty	812	Sept. 28, 1908
Brainard, Jerome W.	Nanton	824	Oct. 2, 1908
Rowler, Thomas H.	Macleod	845	Oct. 6, 1908
Benjamin, Albert	Morinville	862	Oct. 20, 1908
Bucknam, Artliff V.	Bucknam	2637	Oct. 22, 1913
Bannerman, Wm.	Red Deer	*189	Dec. 18, 1901
Boomer, Alonzo	Lacombe	57	Nov. 22, 1905
Bartholomew, Claude D.	Morinville	886	Mar. 13, 1909
Bailey, Charles	Mountain House	887	Mar. 20, 1909
Bessey, Alfred	Stettler	961	April 13, 1909
Bell, David J.	High River	966	April 16, 1909
Bailey, George	Magrath	994	April 22, 1909
Bell, Andrew J.	Shepard	1018	April 28, 1909
Brantz, Albert A.	Mewassini	1036	April 28, 1909
Baumbach, John	Irvine	1046	May 1, 1909
Bishop, Frank E.	Medicine Hat	1047	May 1, 1909
Barnes, Edward	Edmonton	1061	May 21, 1909
Brown, George C.	Edmonton	1077	May 26, 1909
Bakken, Nels O.	Iron Springs	1078	May 28, 1909
Benson, Roy	Calgary	1080	June 8, 1909
Baker, Bernard S.	Nanton	1115	Sept. 21, 1909
Burr, John C.	Calgary	1116	Sept. 21, 1909
Betton, Thomas W.	High River	1140	Sept. 21, 1909
Boyle, James E.	Blairmore	1684	Mar. 29, 1911
Bercyzk, Julius	Edmonton	1976	Oct. 24, 1911
Benson, George	Taber	1151	Sept. 28, 1909
Bjar, Frank	Calmar	1158	Sept. 29, 1909
Black, Andrew	Edmonton	1171	Oct. 9, 1909
Bradley, Harold R.	Wetaskiwin	1176	Nov. 5, 1909
Barley, Jack E.	Edmonton	1181	Nov. 16, 1909
Burness, Henry	Edmonton	1191	Jan. 10, 1910
Bouyea, Arthur	Calgary	1193	Feb. 3, 1910
Berwick, Albert E.	Red Deer	1196	Mar. 4, 1910
Beamer, Frank A.	Calgary	1203	Mar. 7, 1910
Bishop, Harvey M.	Calgary	1204	Mar. 7, 1910
Blackstock, John	Calgary	1205	Mar. 7, 1910
Bonieman, William	Lethbridge	1215	Mar. 15, 1910

*Indicates Certificate was granted by North-West Territories.

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
Buchring, William	Winnifred	1216	Mar. 15, 1910
Barbin, M. J.	Coaldale	1217	Mar. 15, 1910
Baker, Thomas R.	Magrath	1218	Mar. 15, 1910
Beatty, Ed. S.	Lethbridge	1219	Mar. 15, 1910
Bryant, Arthur	Lethbridge	1220	Mar. 15, 1910
Brown, Thomas	Frank	2069	Mar. 18, 1912
Baird, Sam	Blairmore	1625	Mar. 11, 1911
Bochnlein, Galuss J.	Macleod	1636	Mar. 15, 1911
Bochnlein, Galuss J.	Macleod	1266	Mar. 28, 1910
Buck, Herbert W.	Kitscoty	1302	April 6, 1910
Buckler, Eric W.	Black Diamond	1322	April 8, 1910
Buck, Alphalus B.	Okotoks	1323	April 8, 1910
Brown, Archie D.	Acme	1334	April 11, 1910
Bowman, Elra	Halkirk	1284	April 1, 1910
Bonallo, Herbert D.	Calgary	1381	April 21, 1910
Bonallo, Keir	Calgary	1382	April 21, 1910
Babe, Richard	Whitla	1391	April 25, 1910
Biron, J. Hercule	Edmonton	1417	May 13, 1910
Barr, John	Calgary	1418	June 2, 1910
Bent, Wm. K.	Coleman	1441	July 14, 1910
Eryce, William	Davisburg	1485	Sept. 6, 1910
Bree, Ernest N.	Edmonton	1491	Sept. 13, 1910
Burton, Francis J.	Edgerton	1492	Sept. 16, 1910
Bratvold, Oscar	Dina	1493	Sept. 16, 1910
Barstad, Sanders E.	Lee Creek	1494	Sept. 16, 1910
Brettell, James E.	Calgary	1520	Sept. 23, 1910
Brown, George J.	Granum	1539	Oct. 3, 1910
Brubaker, Jonas	Mayton	1551	Oct. 17, 1910
Barrett, Alfred	Ponoka	1556	Oct. 17, 1910
Burton, Frederick Wm.	Strathcona	1559	Oct. 19, 1910
Brown, Frederick H.	Medicine Hat	1563	Oct. 20, 1910
Bradley, Harold	Bassano	1579	Nov. 14, 1910
Byers, Elmer L.	New Dayton	1858	June 20, 1912
Byers, Elmer L.	New Dayton	1583	Nov. 17, 1910
Bailey, Evans	Coleman	1776	April 24, 1911
Bailey, Evans	Coleman	1584	Nov. 17, 1910
Bridge, Ray C.	Calgary	1590	Dec. 8, 1910
Borrows, William	Lethbridge	2244	May 1, 1912
Bond, Newton	Mannville	1593	Dec. 10, 1910
Brouse, Jason W.	Calgary	1608	Jan. 23, 1911
Bergman, Jos. A.	Lethbridge	2710	Mar. 24, 1914
Bennett, Fred C.	Hillcrest	2072	Mar. 18, 1912
Brubaker, Isaac	Airdrie	1646	Mar. 20, 1911
Brown, John E.	Calgary	1647	Mar. 20, 1911
Bye, Martin	Lillico	1670	Mar. 24, 1911
Bullman, John E.	Warner	1685	Mar. 29, 1911
Berrigan, Steve	Bassano	1671	April 19, 1911
Broughton, Wm. J.	Calgary	1762	April 19, 1911
Bennifield, John G.	Rosyth	1713	April 5, 1911
Broahen, Wm. H.	Medicine Hat	1731	April 7, 1911
Ballew, George L.	Medicine Hat	1750	April 15, 1911
Baumbach, Jacob I.	Irvine	1751	April 15, 1911
Burrett, Elmer	Taber	1777	April 24, 1911
Braumberger, Fred C.	Berseker	1801	May 6, 1911
Barnes, Joseph	Bassano	1817	May 20, 1911
Bell, John F.	Lethbridge	1825	May 26, 1911
Berg, Carl M.	Calgary	1848	June 13, 1911
Bradshaw, R. Davis	Edmonton	1868	June 21, 1911
Bennett, Wm. D.	Strathmore	1879	July 15, 1911

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
Bowler, Hubert A.	Edmonton	1888	Aug. 16, 1911
Branning, L. E.	Bow Island	1906	Aug. 24, 1911
Burns, Robert W.	Holmglen	1926	Sept. 7, 1911
Bartman, George V.	Castor	1927	Sept. 7, 1911
Butters, Henry G.	Airdrie	1931	Sept. 7, 1911
Bowen, Robert	Strathcona	1953	Sept. 9, 1911
Baiers, Peter	Edmonton	1967	Sept. 20, 1911
Boler, Thomas A.	Keoma	2593	June 21, 1913
Blades, George	Stirlingville	1968	Oct. 20, 1911
Braithwaite, Harry	Lethbridge	1975	Sept. 24, 1911
Blake, James H.	Calgary	2005	Dec. 8, 1911
Brown, William	Coleman	2071	Mar. 18, 1912
Briggs, Miron W.	Barons	2090	Mar. 22, 1912
Boisvert, Antoine A.	Legal	2095	Mar. 25, 1912
Bruce, George B.	Cardiff	2096	Mar. 25, 1912
Barnum, Louis O.	Acme	2108	Mar. 28, 1912
Baker, Elmer	Champion	2148	April 16, 1912
Benson, Elmer A.	Brunetta	2149	April 16, 1912
Bland, Harry O.	Taber	2156	April 19, 1912
Brausen, John J.	Spring Lake	2163	April 20, 1912
Bonnieman, John	Seven Persons	2175	April 23, 1912
Bissett, Robert B.	Gainsford	2192	April 24, 1912
Bissett, Charles M.	Gilpin	2193	April 24, 1912
Beers, John	Calgary	2202	April 26, 1912
Bibby, Reginald	Pine Creek	2235	April 29, 1912
Burgess, George G.	Lake View	2250	May 3, 1912
Birnel, Ernest E.	Sunny Slope	2251	May 3, 1912
Burnette, Fred. N.	Calgary	2271	May 22, 1912
Boulet, John	Calgary	2272	May 22, 1912
Brennan, Cornelius E.	Bassano	2273	May 22, 1912
Bush, John Thomas	Edmonton	2308	June 17, 1912
Bird, Jos. Samuel	Edmonton	2326	July 12, 1912
Buttress, Clement	Noyes Crossing	2329	July 16, 1912
Bristo, Wm. George	Calgary	2338	July 18, 1912
Brown, James	Calgary	2404	Oct. 19, 1912
Bailey, Peter	Edmonton	2422	Dec. 13, 1912
Baynton, Edward	Wainwright	2423	Dec. 13, 1912
Bevins, Harvey S.	Irvine	2473	Mar. 7, 1913
Baldwin, Harry	Diamond City	2474	Mar. 10, 1913
Butti, Petro	Frank	2483	Mar. 14, 1913
Bjornson, Esbjorn	Kananaskis	2510	April 7, 1913
Baer, E. F.	Redcliff	2517	April 15, 1913
Bennett, William A.	Calgary	2528	April 21, 1913
Bonkoski, Anthony J.	Marlboro	2546	April 26, 1913
Belisle, Fred. A.	Redcliff	2565	May 15, 1913
Bickerton, George H.	Gleichen	2571	May 19, 1913
Benton, Charles Ed.	Innisfail	2652	Dec. 13, 1913
Berlinguette, L. C.	St. Paul de Metis	2655	Dec. 16, 1913
Bainbridge, Wilfred	Beaver Mines	2706	Mar. 24, 1914
Bezley, Edwin C.	Calgary	2731	April 21, 1914
Baldwin, George L.	Mountain Park	2738	April 27, 1914
Beaumont, Carl D.	Champion	2806	Aug. 12, 1914
Barr, James	Calgary	2844	Nov. 23, 1914
Bonisteel, Charles A.	Edmonton	2864	Feb. 12, 1915
Burns, William John	Coleman	2871	Mar. 23, 1915
Bombardier, Guesseppe	Blairmore	2872	Mar. 23, 1915
Burrow, William	Calgary	2905	April 23, 1915
Brewer, John C.	Taber	2933	Aug. 20, 1915
Burger, Henry	Edmonton South	2956	Nov. 15, 1915

Schedule of Holders of Final Certificates of Qualification under
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NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
Currie, L.	Strathcona	*23	Oct. 9, 1899
Cameron, John	Edmonton	*25	Oct. 9, 1899
Carscadden, F. W.	Strathcona	*45	Mar. 7, 1900
Clink, George J.	Lacombe	*115	Dec. 31, 1900
Campbell, Michael	Canmore	*141	May 1906
Cruikshank, Charles	Red Deer	*186	Dec. 18, 1901
Clauson, John	Red Deer	*231	April 23, 1902
Currie, William	Medicine Hat	*256	Aug. 18, 1902
Currie, Archibald	Medicine Hat	*406	Aug. 22, 1903
Calhoun, Culver	Calgary	*488	Mar. 14, 1904
Curtis, W. W.	Carstairs	*551	Dec. 20, 1904
Coulter, Frank	Edmonton	*528	April 18, 1904
Cunningham, J. E.	Ellerslie	*529	April 18, 1904
Clark, W. A.	Edmonton	*530	April 18, 1904
Charette, Clifford	Beaumont	*634	Oct. 15, 1904
Cote, Joseph	Beaumont	*637	Oct. 15, 1904
Crichton, David O.	Lethbridge (dup.)	59	Dec. 2, 1905
Carpenter, David	Pincher Creek	*679	Dec. 9, 1904
Cummins, Walter J. C.	Calgary	*743	Mar. 16, 1905
Colter, Charles	Medicine Hat	*860	June 14, 1905
Converse, E.	Ponoka	55	Nov. 16, 1905
Campou, Denis	St. Albert	82	Mar. 26, 1906
Clausen, Daniel	Evarts	106	April 24, 1906
Cartwright, George	Calgary	116	April 30, 1906
Cooper, Wm. S.	Calgary	126	April 30, 1906
Craig, James T.	Edmonton	144	May 29, 1906
Colwell, Frank L.	Didsbury	152	May 31, 1906
Craig, Mert E.	Markerville	158	May 31, 1906
Clark, James Samuel C.	Taber	172	Aug. 11, 1906
Clark, O. S.	Meadow Creek	1087	Oct. 20, 1909
Cascaden, Arthur	Nanton	194	Aug. 13, 1906
Charboneau, Len	Fort Saskatchewan	213	Sept. 13, 1906
Camfield, Ernest L.	Stettler	229	Sept. 20, 1906
Chabot, Joseph	Edmonton	235	Sept. 20, 1906
Coghill, Albert	Red Deer	*239	Sept. 27, 1906
Cummings, Wm. J.	Bentley	244	Sept. 27, 1906
Curtis, Homer G.	Edmonton	265	April 29, 1907
Campbell, James H.	Edmonton	282	May 15, 1907
Code, James A.	Red Deer	296	May 20, 1907
Campbell, Johnson	Innisfail	317	May 29, 1907
Collard, Charles D.	Mundare	332	May 31, 1907
Cosgrove, James McA.	Calgary	341	June 4, 1907
Carter, John R.	Morningside	368	June 7, 1907
Cox, John	Stettler	369	June 7, 1907
Cunningham, Orvill D.	Vegreville	395	June 14, 1907
Cunningham, Wilber R.	Bawlf	403	June 14, 1907
Campbell, Benj. F.	Edmonton	2552	May 3, 1913
Clark, Herbert	Strathcona	418	June 14, 1907
Coates, Robert A.	Cochrane	2847	Nov. 25, 1914
Caplin, Fred C.	Huntsville	467	July 15, 1907
Charters, Ed. J.	Claresholm	469	July 15, 1907
Clemens, Peter F.	Stettler	531	Oct. 28, 1907
Crego, W. E.	Lacombe	537	Oct. 28, 1907
Culp, George W.	Spring Coulee	630	April 9, 1908
Cook, Walter B.	Medicine Hat	659	April 27, 1908
Cutting, Francis B.	Vermilion	676	April 27, 1908
Chambers, John	Lloydminster	710	May 18, 1908
Castlan, Desire	Cardiff	774	Sept. 18, 1908
Collard, Richard R.	Edmonton	775	Sept. 18, 1908

*Indicates Certificate was granted by North-West Territories.

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
Coburn, Alex. F.	Daugh	787	Sept. 21, 1908
Cotterall, John	Calgary	798	Sept. 22, 1908
Clark, Tom	Cochrane	799	Sept. 22, 1908
Carrow, Joseph B.	Calgary	800	Sept. 22, 1908
Cull, Cecil	Vegreville	813	Sept. 28, 1908
Challenger, Alf. E.	Edgerton	814	Sept. 28, 1908
Carriere, Arthur	High River	825	Oct. 2, 1908
Cody, William H.	High River	826	Oct. 2, 1908
Cousins, Bert.	High River	827	Oct. 2, 1908
Cousins, Walter	High River	828	Oct. 2, 1908
Cameron, George M.	Calgary	861	Oct. 10, 1908
Cleave, George M.	Vegreville	865	Oct. 27, 1908
Coffman, Robert	Frank	868	Nov. 5, 1908
Curey, Wm.	Bowville	892	Mar. 24, 1909
Conibear, Wm. N.	Lethbridge	893	Mar. 24, 1909
Carlson, Carl G.	Didsbury	908	Mar. 26, 1909
Canton, Jules	Edmonton	939	April 3, 1909
Chester, Thomas W.	Macleod	952	April 7, 1909
Christian, Wm. M.	Vermilion	980	April 20, 1909
Cleven, Nels T.	Killam	995	April 23, 1909
Court, Wm. E.	The Gap	1019	April 28, 1909
Crews, Waldan	Medicine Hat	1048	May 1, 1909
Cathro, Aylmer G.	Lethbridge	1170	Oct. 9, 1909
Cowell, Robert J.	Edmonton	1062	Oct. 21, 1909
Chalmers, John	Coleman	1110	Sept. 18, 1909
Cartwright, Walter	Frank	1111	Sept. 18, 1909
Cotton, Samuel J.	Coleman	1112	Sept. 18, 1909
Crear, James	Edmonton	1179	Nov. 16, 1909
Cuddy, Andrew S.	Hillend	1197	Mar. 3, 1910
Czarkaski, Antonio	Edmonton	1202	Mar. 5, 1910
Campbell, John Chas.	Taber	1221	Mar. 15, 1910
Cimoline, Antonio	Lille	1248	Mar. 21, 1910
Callahan, Joseph	Pincher Creek		
Cook, Marshall S.	Pincher Creek	1258	Mar. 22, 1910
Cook, Marshall S.	Pincher Creek	2896	April 16, 1915
Curtis, Claud C.	Macleod	1260	Mar. 22, 1912
Carroll, Thos. C. P.	Vermilion	1281	Mar. 30, 1910
Clay, Elmer	Paradise Valley	1303	April 6, 1910
Cleophas, Leif M.	Coledale	1304	April 6, 1910
Cady, Lynn	Edmonton	1313	April 7, 1910
Cheyne, James	Edmonton	1345	April 13, 1910
Calefas, Henry	Edmonton	1403	May 17, 1910
Cutlack, Percy	Cowley	1442	July 14, 1910
Cook, Delmar E.	Innisfail	1469	Aug. 31, 1910
Cameron, James D.	Bassano	1513	Sept. 21, 1910
Clennin, Samuel	Bawlf	1521	Sept. 23, 1910
Crawford, Robert	Barnhill	1541	Oct. 7, 1910
Campbell, Hugh J.	Calgary	1564	Oct. 20, 1910
Chapman, Thomas	Lethbridge	1578	Oct. 21, 1910
Chadwick, Emml.	Calgary	1612	Mar. 7, 1911
Czerniawski, Mike	Vegreville	2476	Mar. 14, 1913
Cary, Belbert	Stettler	1664	Mar. 22, 1911
Campbell, Lewis A.	Warner	1671	Mar. 24, 1911
Campbell, Benj.	Warner	1686	Mar. 29, 1911
Coffee, Clinton	Tide Lake	1687	Mar. 29, 1911
Coyle, Ed. S.	Nanton	1732	April 10, 1911
Christian, Neal	Magrath	1763	April 19, 1911
Cox, Orville	Kesma	1778	April 24, 1911
Cleminson, Jer.	Calgary	1802	May 6, 1911

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
Cleminson, Wm.	Calgary	1818	May 20, 1911
Caveny, Howard	Stavely	1859	June 20, 1911
Clock, Alf. L.	River Bow	1860	June 20, 1911
Call, Hubert I.	Wetaskiwin	1870	July 6, 1911
Crinion, Bert.	Sundial	1875	July 13, 1911
Cromer, Walter	Edmonton	1889	Aug. 16, 1911
Chatvaire, Jean	Edmonton	1890	Aug. 16, 1911
Chatvaire, Jean	Edmonton	2630	Sept. 20, 1914
Cameron, Frank A.	Calgary	1897	Aug. 22, 1911
Carney, Wm. C.	Nanton	1969	Oct. 20, 1911
Caron, Alphonse	Riviere Qui Barre ..	1985	Oct. 25, 1911
Cowe, George	Edmonton	1988	Nov. 10, 1911
Cook, Wm. R.	Taber	1997	Nov. 17, 1911
Corlett, Wm. Ed.	Edmonton	1768	April 21, 1911
Corlett, Wm. Ed.	Edmonton	2225	April 29, 1912
Carlson, Gus. A.	Battle River	1964	Oct. 18, 1911
Carlson, Gus. A.	Battle River	2287	May 29, 1912
Christie, Wm. W.	Cayley	2025	Jan. 16, 1912
Clegg, Wm. A.	Coleman	2028	Jan. 16, 1912
Corbett, Richard A.	Strathcona	2046	Feb. 23, 1912
Coskey, Clarence J.	Passley	2057	Mar. 13, 1912
Cofell, Lemmy	Ardenville	2070	Mar. 18, 1912
Crapo, George	Bickerdike	2097	Mar. 25, 1912
Clem, John W.	Bragg Creek	2109	Mar. 28, 1912
Crawford, Dan. A.	Magrath	2120	April 2, 1912
Collins, George H.	Gleichen	2125	April 4, 1912
Carnahan, Reuben J.	Bassano	2126	April 4, 1912
Cameron, Wm. T.	Sedgewick	2136	April 10, 1912
Conover, George F.	Grassy Lake	2176	April 23, 1912
Collins, John	Calgary	2203	April 26, 1912
Court, Ed. Alfred	Exshaw	2204	April 25, 1912
Card, Herbert	Leslieville	2252	May 3, 1912
Cowger, Daniel L.	Bassano	2299	June 11, 1912
Collyer, Percy E.	Edmonton	2309	June 17, 1912
Copson, Fred W.	St. Albert	2310	June 17, 1912
Cameron, Wm. John	Calgary	2339	July 18, 1912
Craig, James A.	Tilley	2340	July 18, 1912
Chrisman, Frank	Vermilion	2382	Sept. 20, 1912
Curtis, Lee L.	Edmonton	2412	Nov. 8, 1912
Cox, Arthur	Calgary	2434	Dec. 18, 1912
Crosby, William	Exshaw	2435	Dec. 18, 1912
Cathcart, James	Edmonton	2491	Mar. 26, 1913
Christianson, Oliver	Edmonton South	2444	Jan. 13, 1913
Costa, Joseph	Bellevue	2484	Mar. 14, 1913
Collin, Louis C.	Carmangay	2505	April 3, 1913
Crouch, Leroy	Redcliff	2518	April 15, 1913
Clement, Arthur L. H.	Calgary	2529	April 21, 1913
Clare, Charles E.	Medicine Hat	2567	May 15, 1913
Cartwright, Vern	New Dayton	2570	May 15, 1913
Cownden, William R.	Edmonton N.	2925	June 15, 1915
Crow, James A.	Edmonton South	2605	July 17, 1913
Callfas, Henry	Carbon	2618	Aug. 21, 1913
Crawford, Thomas Henry ..	Medicine Hat	2651	Dec. 13, 1913
Carson, William	Edmonton	2661	Dec. 17, 1913
Currie, George D.	Carbon	*296	Oct. 1, 1902
Curtis, Albert G.	Reist	2770	June 13, 1914
Carrier, Charles H.	Calgary	2845	Nov. 23, 1914
Chalupsky, Albert	Medicine Hat	2637	Feb. 13, 1914
Collantti, Antonio	Passburg	2703	Mar. 24, 1914

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Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

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Third Class—Continued.			
Carle, William P.	Seba	2709	Mar. 25, 1914
Coffin, Donald	Edmonton	2711	April 2, 1914
Caslick, Thomas	Cardiff	2746	May 7, 1914
Carlson, Carl Oscar	Edmonton	2749	May 13, 1914
Caulfield, Owen	Gleichen	2758	May 18, 1914
Close, Wm. A.	Lethbridge	2774	June 17, 1914
Carlson, Alf. R.	Edmonton	2782	June 22, 1914
Cornwell, William	Kipp	2791	July 10, 1914
Caldwell, Ernest F.	Calgary	2797	July 18, 1914
Collier, James B.	Edmonton	2809	Aug. 17, 1914
Cochrane, Elijah H.	Sangudo	2828	Sept. 30, 1914
Clarke, Geo. White	Banff	2832	Oct. 20, 1914
Coburn, John	Edmonton	2840	Nov. 19, 1914
Currie, Lawrence M.	Vermilion	2841	Nov. 19, 1914
Cook, William B.	Lamerton	565	Feb. 27, 1908
Cameron, Augustus F.	Edmonton	2858	Jan. 11, 1915
Craig, William Harper	Bankhead	2886	April 8, 1915
Cochrane, Charles	Bankhead	2915	May 18, 1915
Carey, Ingram R.	Drumheller	2928	July 14, 1915
Cornish, William K.	Lethbridge	2942	Sept. 15, 1915
Clemes, Henry	Barr Head	2960	Dec. 10, 1915
Delop, Thomas	Frank	*293	Sept. 30, 1902
Dobbs, F. M.	Iowalta	*515	April 18, 1904
Druar, S. P.	Riviere Qui Barre ...	*532	April 18, 1904
Dubuc, Emile	Morinville	*551	May 26, 1904
Davis, Henry E.	Didsbury	*752	Mar. 24, 1905
Davie, Alvin A.	Calgary	*846	Mar. 26, 1905
Dickson, James	Blairmore	6	Sept. 16, 1905
Dye, James E.	Ponoka	33	Sept. 16, 1905
Deisting, C. G.	Duhamel	54	Nov. 3, 1905
Dowling, Nelson	Edmonton	90	Mar. 11, 1906
Devillard, Louis	Edmonton	89	Mar. 11, 1906
Drader, Ernest	Lacombe	112	April 25, 1906
Dawes, Albert A.	High River	121	April 30, 1906
Dickson, William A.	Medicine Hat	167	Aug. 11, 1906
Dickens, Charles	Lille	183	Aug. 13, 1906
Dance, Walter H.	Innisfail	293	May 20, 1907
Doyle, John L.	Langdon	349	June 4, 1907
Davidson, Peter A.	Calgary	358	June 4, 1907
Drewes, H. F. W.	Mayville	373	June 7, 1907
Davidson, Andrew C.	Lacombe	377	June 7, 1907
Dersch, Anton L.	Leavings	451	July 15, 1907
Dobbie, Alex.	Pincher Creek	929	April 1, 1909
Drury, William	Taber	552	Dec. 26, 1907
Drinnon, Robert McC.	Calgary	586	Mar. 23, 1908
Deakin, Thomas	Hillcrest	606	April 8, 1908
Dickson, John	Red Deer	640	April 14, 1908
Dehning, Louis H.	Tapscott	649	April 15, 1908
Davis, George O.	Crossfield	680	May 1, 1908
Davis, George O.	Crossfield	2717	April 6, 1914
Dowsett, Alfred	North Bank	697	May 7, 1908
Davis, Chris. M.	Lavoy	724	May 18, 1908
Dennis, Glen	Vegreville	726	May 18, 1908
Denner, Joseph	Lesser Slave Lake ..	737	Aug. 6, 1908
Dunbar, Frank G.	Three Hills	756	Sept. 8, 1908
Dickson, Chas. J. H.	Didsbury	760	Sept. 11, 1908
Davis, Clarence	Stavely	829	Oct. 2, 1908
Davis, Christopher	Lethbridge	846	Oct. 6, 1908

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Schedule of Holders of Final Certificates of Qualification under
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NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
Dingee, Harry	Lethbridge	867	Oct. 29, 1908
Dangerfield, James A.	Olds	1190	Dec. 30, 1909
Donnelly, Henry J.	Wetaskiwin	*784	Mar. 27, 1905
Dawson, John C.	Mountain View	455	July 15, 1907
Denson, Alex. R.	Bankhead	550	Dec. 5, 1907
Duffey, Alfred	Lethbridge	2656	Dec. 16, 1913
Bluski, John	Sundial	897	Mar. 24, 1909
Deugan, Hiram W.	Coleman	910	Mar. 30, 1909
Dairmont, James	Edmonton	942	April 3, 1909
Dickan, Ferd. W.	Ponoka	947	April 17, 1909
Dupmeyer, Joseph	Edmonton	981	April 20, 1909
Davis, George W.	Falstaff	996	April 22, 1909
Duncan, Alex. B.	Edmonton	1063	May 21, 1909
Dixon, William	Calgary	2857	Jan. 8, 1915
Dickie, Samuel	Lethbridge	1157	Oct. 5, 1909
Davey, John B.	Calgary	1206	Mar. 7, 1910
Dawson, William	Macleod	1267	Mar. 28, 1910
Denike, George H.	Lacombe	1285	April 1, 1910
Davy, Stewart C.	Calgary	1324	April 8, 1910
Davidson, James F.	Calgary	1325	April 8, 1910
David, J. R.	Vegreville	2525	April 17, 1913
Darrow, Mason	Taber	1368	April 15, 1910
Dainger, Orlando	Stirling	1369	April 15, 1910
Dunn, Robert J.	Calgary	1383	April 21, 1910
Downing, Frank H.	Bassano	1385	April 19, 1910
Dixon, Wm.	Calgary	1415	May 23, 1910
Dow, Alexander	Lethbridge	1477	Sept. 1, 1910
Dredge, Wm. H.	Edmonton	1495	Sept. 16, 1910
Dow, James	Lethbridge	1613	Mar. 7, 1911
Dixon, George W.	Macleod	1638	Mar. 15, 1911
Davis, Wallace H.	Calgary	1649	Mar. 20, 1911
Dearden, Simon	Three Hills	1650	Mar. 20, 1911
De Wolfe, Wilburn	Sanderville	1672	Mar. 24, 1911
Dewar, Alex. K.	Fort Saskatchewan ..	1769	April 21, 1911
Dankwerth, Wm. L.	Gleichen	1733	April 10, 1911
Desler, Henry C.	Stavely	1779	April 24, 1911
Dunn, Charles W.	Calgary	1803	May 6, 1911
Downham, Mark	Calgary	1804	May 6, 1911
Davison, H. Y.	Rexboro	1813	May 18, 1911
Damman, William	New Dayton	1826	May 26, 1911
Davis, William A.	Edmonton	1895	Aug. 18, 1911
Doten, Earl B.	Calgary	1932	Sept. 8, 1911
DeVore, Harley G.	Edmonton	1960	Sept. 30, 1911
Dow, Gavin M.	Lethbridge	2934	Aug. 20, 1915
Davis, Alfred J.	Lethbridge	2015	Dec. 19, 1911
Desler, George C.	Nanton	1274	Mar. 29, 1910
Desler, George C.	Nanton	2747	May 7, 1914
Draper, Harry	Calgary	2035	Mar. 14, 1912
Diemont, Eugene	Stavely	2091	Mar. 22, 1912
Dubuc, Arthur	Morinville	2098	Mar. 25, 1912
Dunn, Gerald A.	Crowfoot	2127	April 4, 1912
Dyvig, Jacob	Carlstadt	2128	April 4, 1912
Davis, Newton	Bassano	2129	April 4, 1912
Davidson, Wm. H.	Lloydminster	2195	April 24, 1912
Dowsett, Edward J.	Whastao	2229	April 29, 1912
Dawson, Frank B.	Bassano	2274	May 23, 1912
Dillabaugh, Jacob	Edmonton	2311	June 17, 1912

*Indicates Certificate was granted by North-West Territories.

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
Day, Ira J.	Edmonton	2381	Sept. 20, 1912
Davern, Joseph P.	Calgary	2391	Oct. 7, 1912
Dalglish, Thomas R.	Red Deer	2416	Nov. 12, 1912
Dowell, James H.	Edmonton	2424	Dec. 13, 1912
Davison, John W.	Calgary	2436	Dec. 18, 1912
Desjardines, J. Alex.	Mulhurst	2498	Mar. 28, 1913
Duffield, Charles E.	Redcliff	2519	April 15, 1913
Dunsmore, James	Big Valley	2561	May 12, 1913
Daniels, Maurice V.	Czar	2595	June 21, 1913
Davies, Griffiths	Edmonton South	2606	July 17, 1913
Davey, Stuart C.	Bassano	2825	Sept. 21, 1914
Demoule, Joseph	Bassano	2674	Jan. 10, 1914
Dunaway, Leonard G.	Vermilion	2676	Jan. 12, 1914
Dollars, John	High River	2693	Feb. 19, 1914
Dous, William	Wetaskiwin	2724	April 16, 1914
Duncan, William	Edmonton	2750	May 13, 1914
Dickinson, R. F.	Vermilion	2765	May 19, 1914
Davidson, Archie H.	Edmonton	2830	Oct. 15, 1914
Donnelly, William Robert ..	Edmonton	2842	Nov. 19, 1914
Dobbs, Leo W.	Lowalta	2957	Nov. 17, 1915
Donald, Nigel G.	Calgary	2877	Mar. 26, 1915
David, Thomas	Bankhead	2887	April 8, 1915
Dahlen, Morris	Stettler	2897	April 16, 1915
Dawson, Allan	Athabasca	2911	April 27, 1915
Deas, John White	Edmonton	2922	June 15, 1915
Donaldson, John Stanley ..	Medicine Hat	2964	Dec. 10, 1915
Edgerton, Guy	Red Deer	*184	Dec. 18, 1901
Evarts, Lucius P.	Calgary	*394	Aug. 14, 1903
Evarts, Philo	Banff	*490	Mar. 14, 1904
Embody, Charles S.	Calgary	125	April 30, 1906
Ennes, John James	Innisfail	147	May 31, 1906
Ewart, David	Strathcona	219	Sept. 13, 1906
Endersby, Joseph P.	Medicine Hat	261	April 6, 1907
Engen, Anton A.	Sunny Slope	311	May 29, 1907
Eggenberger, John K.	Coalbanks	327	May 29, 1907
Elliott, John	Calgary	353	June 4, 1907
East, Alfred E.	Strathcona	1436	July 7, 1910
Ensminger, Louis C.	Lacombe	400	June 14, 1907
Erratt, William H.	Nanton	419	June 19, 1907
Emmerson, Robert	Bellevue	911	Mar. 30, 1909
Elliott, Henry N.	Carstairs	536	Oct. 28, 1907
Euard, Arthur W.	Calgary	556	Jan. 20, 1908
Elmhirst, Joseph A.	High River	584	Mar. 23, 1908
Eiseman, Joseph	Peace River Crossing ..	738	Aug. 6, 1908
Ellison, O. H.	Strome	783	Sept. 18, 1908
Endersby, John George ..	Lethbridge	10	Sept. 16, 1905
Elford, Albert	Grassy Lake	1009	April 25, 1909
Edwards, Orien	Cheadle	1020	April 28, 1909
Evans, John B.	Canmore	1022	April 28, 1909
East, Neal	Edmonton	1083	July 9, 1909
Elder, Charles G.	Calgary	1118	Sept. 21, 1909
Entwhistle, Charles H.	Edmonton	1145	Sept. 24, 1909
Elliott, Thomas	Cardiff	1182	Nov. 24, 1909
Emrich, William	Innisfail	1198	Mar. 4, 1910
Enzenauer, Peter	Loma	1263	Mar. 24, 1910
Earl, Edgar G.	Norton	1392	April 25, 1910
Egger, Christian	Bowville	1411	May 21, 1910
Ells, Frederick B.	Coleman	1422	June 11, 1910

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Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—Continued.

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
Erickson, Eric A.	Milk River	1423	June 11, 1910
Eneyart, Charles F.	New Dayton	1566	Oct. 20, 1910
Evans, Joseph W.	Magrath	1314	April 7, 1910
Emde, William J.	Coaldale	1614	Mar. 7, 1911
Eld, Gust	Parkland	1651	Mar. 20, 1911
Eshpeter, Henry	Spring Lake	1714	April 5, 1911
Ensign, Elmer G.	Barnwell	1780	April 24, 1911
Edwards, James M.	Calgary	1820	May 20, 1911
Evanston, Ed. M.	Raymond	1876	July 13, 1911
Earl, Alex.	Strathcona	1891	Aug. 16, 1911
Evans, Earl L.	Leslieville	1928	Sept. 7, 1911
Evans, Thomas O.	Lille	1999	Nov. 17, 1911
Eiklor, James J.	Calgary	2036	Feb. 14, 1912
Edmonds, Charles	Strathcona	2900	April 20, 1915
Elynik, Fred.	Mundare	2194	April 24, 1912
Engen, Ole K.	Suffield	2301	June 11, 1912
Evans, Alfred	Edmonton	2312	June 17, 1912
Eades, John J.	Vermilion	2393	Oct. 10, 1912
Elliott, Walter E.	Calgary	2643	Nov. 8, 1913
Edwards, Frank T.	Pine Lake	2465	Feb. 12, 1913
Evans, William	Passburg	2616	Aug. 12, 1913
Ebbers, Bernard H.	Edmonton	2662	Dec. 17, 1913
Everts, Cedric F.	Wetaskiwin	2685	Feb. 12, 1914
Edgar, Robert	Calgary	2916	May 18, 1915
Eltherington, George R.	Calgary	2941	Sept. 28, 1915
Flack, Samuel	Red Deer	*194	Dec. 18, 1901
Findlay, James F.	Leduc	*211	Dec. 18, 1901
Fair, Francis Wm.	Medicine Hat	*257	Aug. 18, 1902
Foster, Wm. W.	Red Deer	*370	May 13, 1903
Fluker, W. R.	Fort Saskatchewan ..	*545	April 18, 1904
Flett, Andrew R.	Calgary	*744	Mar. 16, 1905
Farren, Edgar	Evarts	*777	Mar. 24, 1905
Fowler, Wm. H.	Edmonton	*800	Mar. 31, 1905
Flintoff, Walter	Partridge Hill	*816	April 14, 1905
Fairman, Charles	Medicine Hat	85	April 11, 1906
Frizzelle, James I.	Lacombe	104	April 24, 1906
Fullerton, Thomas W.	Calgary	122	April 30, 1906
Fordyce, J.	Bowden	156	May 31, 1906
Falt, Ainsley M.	Morinville	208	Sept. 13, 1906
Fitzsimmons, G. E.	Calgary	237	Sept. 24, 1906
Falkenberg, Fred D.	Saron	275	May 15, 1907
Forster, Michael	Leduc	278	May 15, 1907
Fortune, George C.	Trochu Valley	2683	Jan. 20, 1914
Fryett, Arthur J.	Neapolis	312	May 29, 1907
Frieson, J. F.	Sunny Slope	313	May 29, 1907
Fike, Daniel K.	Crossfield	320	May 29, 1907
Fuller, Albert	Calgary	357	June 4, 1907
Fox, Henry	Olds	380	June 10, 1907
Findlay, Thomas	High River	429	June 19, 1907
Fricke, Charles L.	Erskine	541	Oct. 28, 1907
Fauver, A. E.	Lamerton	542	Oct. 28, 1907
Freeze, Benj. H.	Edmonton	590	April 2, 1908
Fried, Vincent J.	Granum	598	April 2, 1908
Fried, Vincent J.	Granum	1643	Mar. 15, 1911
Firth, Hedrick	Lethbridge	603	April 8, 1908
Fowler, Dan T.	Magrath	614	April 8, 1908
Frieson, Peter	Didsbury	652	April 15, 1908
Fenner, John S.	Camrose	718	May 18, 1908

*Indicates Certificate was granted by North-West Territories.

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
Farquhar, Alex. W.	Calgary	2530	April 21, 1913
Fortin, Charles C.	Morinville	876	Jan. 18, 1909
Forland, Ole	Lethbridge	900	Mar. 24, 1909
Feargue, Francis J.	Pincher Creek	930	April 1, 1909
Forrest, James O.	Lacombe	951	April 6, 1909
Fowle, William	Blayney	967	April 16, 1909
Forslin, John	New Dayton	989	April 20, 1909
Falardean, Aaron J.	Taber	1010	April 25, 1909
Francis, Joseph	Taber	1011	April 25, 1909
Francis, Joseph	Taber	1717	April 5, 1911
Fullerton, Daniel W.	Taber	1012	April 25, 1909
Fullerton, Daniel W.	Taber	2686	Feb. 12, 1914
Fielding, James	Lethbridge	1434	June 25, 1910
Farend, Charles H.	Barnwell	1152	Sept. 28, 1909
Finstad, Ole A.	Claresholm	1153	Sept. 28, 1909
Fansher, Fred	Lamont	1159	Sept. 29, 1909
Fedun, John	Mundare	1160	Sept. 29, 1909
Frey, Frank	Frank	2485	Mar. 14, 1913
Fairbairn, Robert	Vegreville	1174	Oct. 22, 1909
Fietz, Otto	Diamond City	1222	Mar. 15, 1910
Fisher, Bert	Coleman	1250	Mar. 21, 1910
Fowler, Willis L.	High River	1261	Mar. 22, 1910
Frank, Christopher E.	Frankburg	1264	Mar. 24, 1910
Fedoruk, Tymofi	Vegreville	1305	April 6, 1910
Fenton, S. A.	Taber	1370	April 15, 1910
Fletcher, John R.	Grassy Lake	1378	April 19, 1910
Francis, William	Carlstadt	1393	April 25, 1910
Frigon, Fred	Calgary	1447	July 15, 1910
Fike, Jesse J.	Barnwell	1511	Sept. 21, 1910
Forster, James	Hillcrest	1627	Mar. 11, 1911
Firth, Wilfred	Macleod	1637	Mar. 15, 1911
Farrell, Percy E.	Carstairs	1652	Mar. 20, 1911
Ferguson, Dugald	Nanton	1734	April 10, 1911
Frizzelle, Jinkle G.	Calgary	1735	April 10, 1911
Freisen, Ger. H.	Sunny Slope	1715	April 5, 1911
Ferschweiler, John	Trochu	1716	April 5, 1911
Flynn, Charles	Calgary	1736	April 11, 1911
Fleming, James	Medicine Hat	1781	April 24, 1911
Forsyth, John A.	Red Deer	1798	April 26, 1911
Fleming, Andrew B.	Irricana	1805	May 6, 1911
Frache, Richard	Lethbridge	1862	June 20, 1911
Foster, Arthur C.	Calgary	1898	Aug. 22, 1911
Foughty, Clifford R.	Carlstadt	1933	Sept. 8, 1911
Forbes, John	Edmonton	2008	Dec. 12, 1911
Freeman, Herbert B.	Edmonton	2641	Oct. 28, 1913
Flamme, August W.	Bow Island	2058	Mar. 13, 1912
Fitzpatrick, John	Bellevue	2073	Mar. 18, 1912
Farmer, Raymond W.	Morningside	2138	April 10, 1912
Fletcher, James	Metiskow	2165	April 20, 1912
Freeland, Charles	Hindville	2231	April 29, 1912
Fenwick, Charles	Strome	2297	June 10, 1912
Fairhurst, George	Coleman	2305	June 14, 1912
Farnsworth, Joseph	Seven Persons	2351	July 19, 1912
Flett, Fred. W.	Edmonton	2445	Jan. 13, 1913
Farrell, George C.	Edmonton	2548	April 26, 1913
Forgie, Alex.	Clover Bar	2647	Nov. 11, 1913
Forsythe, Marshall A.	Bankhead	2718	April 6, 1914
French, George B.	Cardiff	2742	April 29, 1914
Filion, Joseph	Edmonton	2761	May 19, 1914

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
Finch, Norman F.	Edmonton	2884	April 5, 1915
Forrest, Richard Gray	Bankhead	2888	April 8, 1915
Gillman, Herbert	Consort	*704	Feb. 13, 1905
Gagnon, Alfred	St. Albert	*55	May 28, 1900
Gaetz, James F.	Red Deer	*226	April 23, 1902
George, John	Kamloops	*478	June 13, 1904
Giddings, Thomas	Calgary	*489	Mar. 14, 1904
Grigat, John	Leduc	*533	April 18, 1904
Gobel, H. C.	Edmonton	*543	April 18, 1904
Gardner, Marques	Red Deer	*780	Mar. 24, 1905
Green, John	Medicine Hat	2285	May 25, 1912
Gallup, Walter E.	Medicine Hat	*858	June 14, 1905
Grote, Frank	Bon Accord	*890	Aug. 31, 1905
Griffen, Henry	Stavelly	11	Sept. 16, 1905
Grote, Alex. E.	Spruce Grove	65	Mar. 16, 1906
Graf, John	Fort Saskatchewan ..	92	April 11, 1906
Garneau, Larry	Strathcona	224	Sept. 13, 1906
Godley, Maurice W.	Red Deer	238	Sept. 27, 1906
Grant, Farquhar	Edmonton	267	April 29, 1907
Glaspie, Ed. H.	Hurry	331	May 31, 1907
Grue, Simon T.	Camrose	394	June 14, 1907
Grove, Benj. K.	Camrose	404	June 14, 1907
Grant, George F.	Lewisville	412	June 14, 1907
Galentine, Frank	High River	434	June 19, 1907
Giese, Gottlieb W.	Spruce Grove	499	Oct. 15, 1907
Graham, Willard	Crossfield	519	Oct. 24, 1907
Gwilt, George	Didsbury	528	Oct. 24, 1907
Gray, John A.	Claresholm	576	Mar. 23, 1908
Gray, John A.	Claresholm	2755	May 13, 1914
Gibson, William H.	Coleman	601	April 8, 1908
Gerrard, John	Lundbreck	2625	Sept. 18, 1913
Girber, Dan E.	Sunny Slope	648	April 4, 1908
Gillett, George I.	Carstairs	681	May 1, 1908
Grundy, James	Bowden	684	May 1, 1908
Greene, George A.	Edmonton	708	May 18, 1908
Gustafson, Ivan	Leduc	1375	April 19, 1910
Gibbs, James A.	Delnorte	715	May 18, 1908
Gray, William J.	Fort Vermilion	739	Aug. 6, 1908
George, William S.	Peace River Crossing ..	740	Aug. 6, 1908
Graham, John M.	Athabasca Landing ..	746	Aug. 13, 1908
Gotobed, B.	Strathcona	776	Sept. 18, 1908
Gale, Sidney H.	Calgary	791	Sept. 24, 1908
Gillies, William	Strathcona	872	Dec. 23, 1908
Goodfellow, James	Calgary	118	April 30, 1906
Goeson, George J.	Granum	912	Mar. 30, 1909
Gilmore, David	Frank	913	Mar. 30, 1909
Gibb, David T.	Raymond	990	April 20, 1909
Gusa, Herman E.	Calgary	1013	April 25, 1909
Grobe, Charles W.	Shepard	1023	April 28, 1909
Geertruyden, H. Van	Edmonton	1086	July 25, 1909
Gilmore, Charles R.	Red Willow	1091	Aug. 27, 1909
Gullekson, Edwin L.	Wetaskiwin	1095	Sept. 7, 1909
Guertin, Joseph E.	Bowville	1101	Sept. 15, 1909
Gowdy, William T.	Airdrie	1119	Sept. 21, 1909
Green, Jay H.	Brant	1120	Sept. 21, 1909
Grimoldby, Walter H.	Strathcona	1161	Sept. 29, 1909
Gobell, Edward	Royal View	2266	May 18, 1912
Grigat, John Jr.	Leduc	1286	April 1, 1910

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Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—Continued.

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
Gunderson, Ingval J.	Warner	1360	April 14, 1910
Grudl, Stephen	Manfred	1404	May 17, 1910
Goodwin, William	Strathcona	1448	July 15, 1910
Gerrie, George	Oxville	1496	Sept. 16, 1910
Gibbons, George A. R.	Battenburg	1497	Sept. 16, 1910
Giese, Daniel	Spruce Grove	1498	Sept. 16, 1910
Guess, Herbert	Pincher Creek	1567	Oct. 20, 1910
Gosling, Frederick	Morley	1580	Nov. 14, 1910
Gilmer, Allan	Provost	1673	Mar. 24, 1911
Gerchke, William	Walsh	1752	April 15, 1911
Green, Charles L.	Calgary	1764	April 19, 1911
Gross, Henry A.	Burdette	1702	Mar. 31, 1911
Graham, Oscar J.	Grassy Lake	1703	Mar. 31, 1911
Gardner, Fred W.	Dalroy	1737	April 10, 1911
Gray, Jesse L.	Macleod	1782	April 24, 1911
Gunderson, Cornelius	Warner	1827	May 26, 1911
Graham, William Robert	Summerview	1828	May 26, 1911
Gray, Wallace C.	Edmonton	1844	June 9, 1911
Gray, Wallace C.	Edmonton	2748	May 7, 1914
Greenwood, Joseph	Calgary	2949	Oct. 14, 1915
Green, John Henry	Stauunton	1877	July 13, 1911
Greenwood, John	Calgary	1899	Aug. 22, 1911
Graham, William A.	Coaldale	1908	Aug. 24, 1911
Gray, Irving	Yetwood	1909	Aug. 24, 1911
Gray, Elgin W.	Entwistle	2330	July 16, 1912
Gray, Luke Charles	Calgary	2367	Sept. 10, 1912
Gellhorn, Wilhelm	Strathcona	1594	Dec. 10, 1910
Gellhorn, Wilhelm	Strathcona	2425	Dec. 13, 1912
Gloer, Harrison	Iron Springs	2059	Mar. 13, 1912
Goetz, Emil Joseph	Evergreen	2075	Mar. 18, 1912
Graf, John Peter	Independence	2100	Mar. 25, 1912
Ganser, Moritz A.	Provost	2139	April 18, 1912
Greenwood, George F.	Warner	2150	April 16, 1912
Grant, William Jr.	Killam	2167	April 20, 1912
Gair, David	Strome	2168	April 20, 1912
Griggs, Ralph	Suffield	2171	April 23, 1912
Gardner, Harold M.	Medicine Hat	2178	April 23, 1912
Gaskell, Edwin	Edmonton	2201	April 25, 1912
Grainger, Albert	Wainwright	2215	April 29, 1912
Gilkinson, Robert J.	Clover Bar	2223	April 29, 1912
Goldsmith, Oliver	Ethelwyne	2224	April 29, 1912
Goodwin, Edwin C.	Bassano	2275	May 22, 1912
Graham, John	Edmonton	2560	May 8, 1913
Grimoldsby, John D.	Strathcona	2313	June 17, 1912
Griffith, Louis O.	Calgary	2341	July 18, 1912
Galonot, Ernest L.	Cowley	2352	July 19, 1912
Gueker, Stephen M.	Big Valley	2409	Oct. 23, 1912
Glennon, Joshua	Banff	2421	Dec. 4, 1912
Godby, Allen C.	Edmonton	2446	Jan. 13, 1913
Gordon, Stafford G.	Calgary	2451	Jan. 15, 1913
Grant, Henry	Medicine Hat	2520	April 15, 1913
Garrett, James W.	Lamont	2549	April 26, 1913
Grundy, Harold	Edmonton	2550	April 26, 1913
Grant, Andrew	Edmonton	2554	May 3, 1913
Graham, Alex.	Fort Saskatchewan ..	2706	July 17, 1913
Gillespie, Sam C.	Calgary	2614	Aug. 11, 1913
Gardner, Jack	Calgary	2732	April 21, 1914
Green, Ernest J.	Edmonton	2781	June 22, 1914
Gosden, Robert William	Edmonton S.	2810	Aug. 17, 1914

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
Grey, William Martin	Redcliff	2815	Aug. 20, 1914
Green, George H.	Alsask	2923	June 15, 1915
Gillespie, A. Maxwell	Fort Saskatchewan ..	2901	April 20, 1915
Gordon, William D.	Drumheller	2906	April 23, 1915
Green, Garrett Wm.	Medicine Hat	2940	Sept. 10, 1915
Gautchier, Paul	Cardiff	2945	Oct. 13, 1915
Hewer, Jesse J.	Strathcona	*24	Oct. 9, 1899
Harrold, David	Edmonton	*54	May 28, 1900
Heffner, Frank	Bruederheim	*92	Nov. 15, 1900
Holden, J. A.	Strathcona	*114	Dec. 31, 1900
Hober, John W.	Ponoka	*214	Jan. 7, 1902
Harris, Ed. S.	Star	*327	Dec. 18, 1902
Hudson, Arthur C.	Edmonton	*330	Jan. 6, 1903
Hehsoerfer, Joseph	Edmonton	*359	May 13, 1903
Haney, Sylvester	Lacombe	*482	Jan. 28, 1904
Houghstol, Anton	Wetaskiwin	*516	April 18, 1904
Harrold, John Jr.	Edmonton	*534	April 18, 1904
Hankehadl, Edgar O.	Duhamel	*785	Mar. 27, 1905
Hardy, Albert Wm.	Lake de May	878	Feb. 10, 1909
Henschel, August	Strathcona	49	Sept. 23, 1905
Hart, William J.	Raymond	22	Sept. 16, 1905
Hacking, George A.	Magrath	23	Sept. 16, 1905
Haybarger, Charles A.	Fort Saskatchewan ..	34	Sept. 16, 1905
Hewitt, Robert E.	Bon Accord	38	Sept. 18, 1905
Hays, Morion L.	Toffield	91	April 11, 1906
Headley, Henderson	Medicine Hat	88	April 11, 1906
Higgins, James A.	Medicine Hat	87	April 11, 1906
Humbke, Detriche E.	Battle River	101	April 20, 1906
Hunter, Wm. John	Fort Saskatchewan ..	109	April 24, 1906
Hobson, Patrick J.	Strathcona	130	May 4, 1906
Hunter, Fred H.	Didsbury	151	May 31, 1906
Hallett, George E.	Camrose	163	July 7, 1906
Henry, Ortus	Claresholm	177	Aug. 13, 1906
Heighington, J. H.	Rosenroll	1321	April 7, 1910
Hammitt, J. A.	Wetaskiwin	234	Sept. 20, 1906
Harris, A. J.	Chipman	223	Sept. 13, 1906
Hardy, Wm. B.	Edmonton	270	April 29, 1907
Heilemrs, John	Millet	276	May 15, 1907
Hitchcock, Arthur L.	Pine Lake	292	May 20, 1907
Harris, Ed.	Mayton	303	May 23, 1907
Herdman, George S.	Mayton	306	May 23, 1907
Hilts, Neil A.	Didsbury	314	May 29, 1907
Huff, William H.	Crossfield	315	May 29, 1907
Harrison, David R.	Lamont	333	May 31, 1907
Handley, J. T.	Valley City	370	June 7, 1907
Hauser, John H.	Strome	387	June 14, 1907
Hauser, George W.	Strome	401	June 14, 1907
Halstead, Arthur L.	Edberg	407	June 14, 1907
Hoar, William J.	Berry Bank	409	June 14, 1907
Hartt, Guy C.	High River	421	June 19, 1907
Herron, John A.	Nanton	915	Mar. 30, 1909
Honan, John E.	High River	431	June 19, 1907
Hislop, Thomas L.	Taber	443	July 15, 1907
Haverold, Robert L.	Lethbridge	462	July 15, 1907
Henderson, Clifton C.	Ellinor	470	July 15, 1907
Heitman, Herman	Pincher Creek	473	July 15, 1907
Hicks, Ephraim B.	Raymond	474	July 15, 1907
Harding, Norris H.	Lethbridge	848	Oct. 6, 1908

*Indicates Certificate was granted by North-West Territories.

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
Hallman, Sydney E.	Carstairs	488	Oct. 12, 1907
Horne, Ned	Edmonton	506	Oct. 15, 1907
Healey, Joseph	Bankhead	548	Dec. 5, 1907
Henderson, John H.	Taber	554	Dec. 26, 1907
Harris, George A.	Calgary	555	Jan. 20, 1908
Horwood, Walter E.	Calgary	560	Jan. 20, 1908
Hutchings, Percy J.	Edmonton	595	April 2, 1908
Howard, Sam	Frank	2076	Mar. 18, 1912
Hills, William C.	Hillcrest	624	April 9, 1908
Hilts, Simon W.	Didsbury	654	April 15, 1908
Hoy, Walter M.	Medicine Hat	665	April 27, 1908
Haskins, Martin	Vermilion	2939	Sept. 2, 1915
Hayes, Fred J.	Vermilion	671	April 27, 1908
Hayes, Fred J.	Vermilion	2729	April 17, 1914
Hall, Richard	Lloydminster	673	April 27, 1908
Higginson, R. R.	Kitscoty	677	April 27, 1908
Holgate, John	Airdrie	685	May 1, 1908
Haselwood, Alfred W.	Rosenroll	701	May 7, 1908
Hunting, Humphrey W.	Lacombe	769	Sept. 14, 1908
Holbrook, Peter E.	Stettler	2502	Mar. 31, 1913
Hanlan, W. J.	Edmonton	777	Sept. 18, 1908
Haeflin, Mark E.	Exshaw	793	Sept. 22, 1908
Henderson, Alex.	Granum	830	Oct. 2, 1908
Hendrickson, John	Claresholm	831	Oct. 2, 1908
Henderson, Robert	Lethbridge	958	April 9, 1909
Hatfield, Charles L.	Blayney	968	April 16, 1909
Hanson, Peter C.	Cleversville	977	April 20, 1909
Hultgren, Victor	Stavelly	978	April 20, 1909
Horne, George Jr.	Edmonton	982	April 20, 1909
Hall, David N.	Grassy Lake	993	April 20, 1909
Honeywell, Sid C.	Sedgewick	997	April 22, 1909
Hough, Oscar	Camrose	998	April 22, 1909
Haugen, Peter M.	Bardo	999	April 22, 1909
Hardy, Herbert J.	Exshaw	2680	Jan. 12, 1914
Henderson, A. J.	Langdon	1025	April 28, 1909
Hauptert, John	Lewisville	1044	April 30, 1909
Hunter, James S.	Edmonton	1064	May 21, 1909
Hendrie, James M.	Lethbridge	1102	Sept. 15, 1909
Herman, Charles	Queenstown	1121	Sept. 21, 1909
Hutchinson, Fred.	High River	1122	Sept. 21, 1909
Herrick, Oscar F.	Eyremore	1123	Sept. 21, 1909
Hiney, Allan	Cochrane	1124	Sept. 21, 1909
Hatfield, Wilmer B.	Lethbridge	1178	Nov. 13, 1909
Heighs, George, Jr.	Iron Springs	1225	Mar. 15, 1910
Hewitt, James R.	Cowley	1257	Mar. 21, 1910
Homer, Samuel C.	Claresholm	1275	Mar. 29, 1910
Hazelwood, Ernest Wm.	Bittern Lake	1287	April 1, 1910
Hauser, Anthony B.	Strome	1288	April 1, 1910
Hicks, Frank I.	Raymond	1315	April 7, 1910
Harris, Thomas Wm.	Raymond	1316	April 7, 1910
Hislop, Wilber	Calgary	1320	April 7, 1910
Hendrickson, Edwin	Crossfield	1335	April 11, 1910
Hickox, William C.	Cochrane	1336	April 11, 1910
Holte, Ole	Logan	1347	April 13, 1910
Hansen, Fred	Viking	1348	April 13, 1910
Hammer, Leo	Lethbridge	1358	April 14, 1910
Hipp, William	Taber	1371	April 15, 1910
Herrick, Weston M.	Cleversville	1387	April 22, 1910
Harder, Andrew J.	Medicine Hat	1394	April 25, 1910

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
Harold, John	Lethbridge	1412	May 21, 1910
Hamilton, Walter	Olds	1419	June 9, 1910
Hamilton, John	Pincher Creek	1424	June 11, 1910
Hughes, Robert Samuel	Cardiff	1443	July 14, 1910
Hall, Jesse D.	Stirling	1466	Aug. 30, 1910
Horn, Peter	Lethbridge	1467	Aug. 30, 1910
Horn, William	Lethbridge	1478	Sept. 1, 1910
Hansen, Arney	Millet	1605	Jan. 20, 1911
Hill, George S.	Edmonton	1499	Sept. 16, 1910
Harwood, Thomas R.	Stettler	1515	Sept. 21, 1910
Hohle, John F.	Calgary	1523	Sept. 23, 1910
Heaton, Frank	Edmonton	1582	Nov. 15, 1910
Holte, M. D.	Kipp	1615	Mar. 7, 1911
Heyland, William N.	Claresholm	1644	Mar. 16, 1911
Hough, Floyd G.	Calgary	1653	Mar. 20, 1911
Hough, Floyd G.	Calgary	2733	April 21, 1914
Halloran, Fred P.	Strathcona	1665	Mar. 22, 1911
Harding, Thomas H.	Edmonton	1666	Mar. 22, 1911
Hanna, Robert J.	Stirling	1680	Mar. 28, 1911
Howorth, Charles	Calgary	1765	April 19, 1911
Hagen, Henry	Battle Lake	1718	April 5, 1911
Heisler, Jacob	Spring Lake	1719	April 5, 1911
Hennessey, Robert G.	Bassano	1748	April 10, 1911
Horton, Frank S.	Medicine Hat	1753	April 15, 1911
Harrison, Harley	Lethbridge	1783	April 24, 1911
Holmberg, John A.	Lucky Lake	1784	April 24, 1911
Harrington, Dan L.	Diamond City	1829	May 26, 1911
Horton, S. B.	Barons	1830	May 26, 1911
Hardy, Robert W.	Leduc	1846	June 9, 1911
Honnor, Herbert N.	Medicine Hat	1863	June 20, 1911
Huff, W. P.	Edmonton	1880	July 15, 1911
Haine, Sanford	Edmonton	1881	July 18, 1911
Harwood, Walter	Castor	1892	Aug. 16, 1911
Hornberger, Raymond	Reid Hill	1910	Aug. 24, 1911
Hango, John J.	Red Deer	1929	Sept. 7, 1911
Henry, William G.	Calgary	1934	Sept. 8, 1911
Hunerkoch, George W.	Magrath	1941	Sept. 9, 1911
Harris, John	Fishburn	1942	Sept. 9, 1911
Hossier, Charles A.	Halkirk	1961	Oct. 18, 1911
Heighington, Frank H.	Bittern Lake	1962	Oct. 18, 1911
Houghton, Ernest	Calgary	1970	Oct. 20, 1911
Hatherell, Albert	Suffield	1979	Oct. 24, 1911
Hanson, William	Spring Lake	1989	Nov. 11, 1911
Holland, Milton C.	Noble	2016	Dec. 19, 1911
Harmon, Frank E.	Pincher Stn.	1978	Oct. 24, 1911
Harmon, Frank E.	Pincher Stn.	2432	Dec. 17, 1912
Hinkle, John F.	Carlstadt	2026	Jan. 16, 1912
Holmberg, Robert E.	Calgary	2037	Feb. 14, 1912
Halverson, John A.	Edgerton	2101	Mar. 25, 1912
Halvorsen, Arent C.	Metiskow	2140	April 10, 1912
Halvorsen, Henry G.	Metiskow	2141	April 10, 1912
Halvorsen, Holmer J.	Metiskow	2142	April 10, 1912
Holt, Olaf A.	Winnifred	2179	April 23, 1912
Holmgren, Walter	Edmonton	2196	April 24, 1912
Holmgren, Walter	Edmonton	2331	July 16, 1912
Hedlund, Victor	Wainwright	2197	April 24, 1912
Hoskins, James	Viking	2198	April 24, 1912
Haines, Charles M. J.	Calgary	2205	April 26, 1912
Hunter, Robert	Canmore	2206	April 26, 1912

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
Hertel, Christian	Calgary	2207	April 26, 1912
Hertel, Christian	Calgary	2437	Dec. 18, 1912
Howard, Henry	Wainwright.	2216	April 29, 1912
Hawryschuk, George	Mundare	2220	April 29, 1912
Harding, Montague C.	Mannville	2230	April 29, 1912
Howes, Fred. R.	Stauffer	2254	May 3, 1912
Heinze, William Ed.	Copeville	2255	May 3, 1912
Haney, Edward	Bassano	2276	May 22, 1912
Hickman, Edward H.	Gleichen	2277	May 22, 1912
Hianna, Melvin	Edmonton	2314	June 17, 1912
Hindman, James	Medicine Hat	2353	July 19, 1912
Halsall, Joseph	Stavely	2368	Sept. 17, 1912
Hardy, Thomas	Lethbridge	2369	Sept. 17, 1912
Hathaway, Harold	Edmonton	2448	Jan. 13, 1913
Hudson, Benj. R.	Cardston	2398	Oct. 17, 1912
Hesse, William	Calgary	2438	Dec. 18, 1912
Harman, Noah S. A.	Edmonton	2426	Dec. 13, 1912
Hildebrandt, Oscar	Strathcona	2689	Feb. 16, 1914
Hallett, John	Castor	1674	Mar. 24, 1911
Hallet, John	Castor	2507	April 4, 1913
Hollinger, Peter	Edmonton	2447	Jan. 13, 1913
Hancock, Wesley E.	Medicine Hat	2454	Jan. 15, 1913
Hanson, Oscar	Calgary	2460	Feb. 12, 1913
Hanson, Eugene J.	Innisfail	2492	Mar. 26, 1913
Hayfield, John	Edmonton	2819	Aug. 28, 1914
Holladay, William B.	Rosenroll	2514	April 11, 1913
Hole, James	Medicine Hat	2521	April 15, 1913
Hanson, John E.	Bawlf	2562	May 12, 1913
Hampson, John	Edmonton	2596	June 21, 1913
Hutchinson, John W.	Medicine Hat	2601	July 10, 1913
Howard, William C.	Carlstadt	2604	July 15, 1913
High, Dan	Red Deer	2613	Aug. 9, 1913
Hacket, Walter	Taber	2617	Aug. 12, 1913
Hanna, Robert S.	Lacombe	2653	Dec. 13, 1913
Heighes, Hubert	Iron Springs	1616	Mar. 7, 1911
Hood, Torrance	Hillcrest	2704	Mar. 24, 1914
Haxton, James	Beverley	2712	April 2, 1914
Humphries, Ernest O.	Edmonton	2713	April 2, 1914
Henderson, James	New Norway	2725	April 16, 1914
Hucklesbee, Leonard	Edmonton	2743	April 29, 1914
Hamilton, Gilbert B.	Edmonton	2751	May 13, 1914
Hayes, Leslie L.	Lethbridge	2756	May 13, 1914
Hahn, August	Edmonton	2762	May 19, 1914
Henderson, William P.	Okotoks	2778	June 20, 1914
Harrison, Sidney W.	Edmonton	2784	June 22, 1914
Hamilton, Leland S.	Fort Saskatchewan ..	2785	June 22, 1914
Haggarty, James J.	Grouard	2790	July 3, 1914
Hume, Thomas	Calgary	2816	Aug. 22, 1914
Handford, Percy	Innisfail	2821	Sept. 15, 1914
Hibbert, William J.	Medicine Hat	2798	July 18, 1914
Hood, William	Edmonton	2860	Jan. 11, 1915
Heck, Edgar A.	Stettler	2863	Feb. 10, 1915
Haugrud, Syver J.	Calgary	2866	Feb. 20, 1915
Harper, John Cameron	Drumheller	2889	April 8, 1915
Houghton, Ernest	Bassano	2892	April 9, 1915
Hogge, Ivan	St. Kilda	2907	April 23, 1915
Hurst, Alfred H.	Nanton	2908	April 23, 1915
Hughes, Thomas	Calgary	2917	May 18, 1915
Harker, Joseph A.	Magrath	2925	June 16, 1915

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
Hampton, William J. H.	Ardley	2944	Oct. 12, 1915
Hughes, Charles E.	Dinant	2947	Oct. 13, 1915
Haxton, Andrew	Calgary	2950	Oct. 15, 1915
Hill, John E.	Beverly	2961	Dec. 16, 1915
Holmes, John	Coalhurst	2967	Dec. 13, 1915
Hovis, Martin L.	Black Diamond	2968	Dec. 16, 1915
Imeson, George	Stony Plain	*206	Dec. 18, 1901
Ibson, Clause W.	Mewassin	*804	Mar. 31, 1905
Isaacson, Frank	Claresholm	191	Aug. 13, 1906
Iverson, Olaf	Molstad	231	Sept. 20, 1906
Isherwood, William	Calgary	588	Mar. 23, 1908
Ingram, William	Leduc	860	Oct. 7, 1908
Isaacson, Willie	Claresholm	969	April 16, 1909
Jllingworth, Joseph	Edmonton	983	April 20, 1909
Inglesby, E. C.	Edmonton	1180	Nov. 16, 1909
Imler, John C.	Okotoks	1326	April 8, 1910
Ireland, James H.	Blairmore	1629	Mar. 11, 1911
Ingram, Wesley	Tofield	1697	Mar. 31, 1911
Ives, Albert J.	Grassy Lake	1704	Mar. 31, 1911
Ireland, Wm. James	Cardston	1911	Aug. 24, 1911
Iball, William	Kipp	2354	July 19, 1912
Isaacson, Arthur S.	Evarts	514	Oct. 22, 1907
Isaacson, Arthur S.	Evarts	2792	July 14, 1914
Jackson, Charles	Calgary	*66	July 19, 1900
Joyner, Charles A.	Bentley	*173	Oct. 2, 1901
James, Dunham D.	Didsbury	*321	Nov. 1, 1902
Jeune, Ivan	Wetaskiwin	*332	Feb. 13, 1903
Jamieson, Johnston	Ponoka	*353	April 24, 1903
Johnson, Conrid	Red Deer	*414	Aug. 29, 1903
Jameson, Charles W.	Ponoka	*644	Oct. 15, 1903
James, F. S.	Ponoka	28	Sept. 16, 1905
Johnson, Elijah	Canyon	61	Dec. 29, 1905
Johnson, Ed.	Diana	99	April 20, 1906
Jenson, Louis C.	Alix	114	April 25, 1906
Jones, Jack	Bankhead	140	May 14, 1906
Johnson, Benj. F.	Raymond	2470	Feb. 19, 1913
Jones, Fred.	Coleman	189	Aug. 13, 1906
Job, Charles	Strathcona	222	Sept. 13, 1906
Jordon, A. H.	Edmonton	271	April 22, 1907
Jesse, E.	Hardisty	284	May 15, 1907
Johnson, G. Anton	Didsbury	316	May 29, 1907
Johanson, Henry	Walsh	328	May 31, 1907
Johnson, Joseph	Medicine Hat	361	June 4, 1907
Jones, Arthur	Camrose	383	June 14, 1907
Jolins, Thomas L.	Magrath	459	July 15, 1907
Jamieson, Jesse H.	Edmonton	505	Oct. 15, 1907
Johanson, John T.	Olds	521	Oct. 24, 1907
Journey, Clyde R.	Brant	582	Mar. 22, 1908
Jepson, Walter	Bellevue	612	April 8, 1908
Johnston, Percy W.	Edmonton	713	May 18, 1908
Johnson, Elmer	Daysland	716	May 18, 1908
Julien, Eugene	South Bend	720	May 18, 1908
Johnson, Charles J.	Stavely	832	Oct. 2, 1908
Jensen, Ole E.	Seven Persons	833	Oct. 2, 1908
Jones, Isaac	Raymond	849	Oct. 6, 1908
James, John E.	Taber	850	Oct. 6, 1908
Johnson, Alfred	Hillcrest	917	Mar. 30, 1909

*Indicates Certificate was granted by North-West Territories.

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—Continued.

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
Jackson, Thomas C.	Stettler	962	April 13, 1909
James, Griffith L.	Ponoka	975	April 7, 1909
Jones, Robert	Lethbridge	1103	Sept. 15, 1909
Jermaine, Stephen	Andrew	1038	April 29, 1909
Johnson, W. E.	Lethbridge	1058	May 4, 1909
Jones, Arthur W.	Edmonton	1060	May 20, 1909
Johnson, John G.	Millet	1065	May 21, 1909
Jones, William Daniel	Edmonton	2289	May 29, 1912
Johnson, Charles J.	Onoway	1192	Jan. 10, 1910
Jones, William C.	Bow Island	1226	Mar. 25, 1910
Jeanclaude, Leopold	Edmonton	1306	April 6, 1910
Jackson, Roy E.	Queenstown	1327	April 8, 1910
Jordan, Glen L.	Banff	1338	April 11, 1910
Jones, Albert E.	Rosebud Creek	1407	April 19, 1910
Johnsrud, Alfred	Harmattan	1552	Oct. 17, 1910
Johnson, James F., Jr.	Barnwell	1568	Oct. 20, 1910
Jones, Samuel	Lethbridge	2657	Dec. 16, 1913
James, Reginald	Coleman	2823	Sept. 21, 1914
Jensen, Rasmus	Raymond	1681	Mar. 28, 1911
Johnson, Wm. F.	Walsh	2021	Dec. 27, 1911
Jones, Wm. N.	Edmonton	1814	April 18, 1911
Jenkins, James	Coleman	2609	July 18, 1913
Jelly, Alf.	Calgary	1882	July 19, 1911
Johnson, Ellin A.	Calgary	1923	Aug. 26, 1911
Joseph, Orvil E.	Macleod	1935	Sept. 8, 1911
Jantzen, Peter H.	Calgary	1936	Sept. 8, 1911
Johnson, Benj. C.	Magrath	1943	Sept. 9, 1911
Johnson, Joseph	Blackie	2038	Feb. 14, 1912
Johnson, William	Fort Chipewyan	2045	Feb. 22, 1912
Jones, Ray	Calgary	2239	May 1, 1912
Jackson, George Alex	Lignite	2263	May 8, 1912
Jeffry, Philip	Granum	2360	Aug. 14, 1912
Johannsen, Alfred	Calgary	2376	Sept. 19, 1912
Johnson, John Peter	Taber	2399	Oct. 17, 1912
Johnson, Herbert N.	Calgary	2477	Mar. 14, 1913
Jackson, William H.	Markerville	2515	April 11, 1913
John, Thomas	Calgary	2572	May 19, 1913
Johnson, David J.	Peace River Crossing	2826	Sept. 23, 1914
Jones, William H.	Coronation	2852	Dec. 15, 1914
John, F. Charles	Banff	2919	June 11, 1915
James, John Kellogg	Wabamun	2962	Dec. 10, 1915
Krause, Otto	Innisfail	*171	Oct. 1, 1901
Kanngiesser, Simon	Lacombe	*512	April 18, 1904
Kelsey, A. F.	Clover Bar	1484	Sept. 2, 1910
Knapp, Henry H.	Edmonton	*645	Oct. 15, 1904
Kerwin, James	Leavings	*748	Mar. 16, 1905
Kolner, Bernard	Millet	*793	Mar. 27, 1905
Klapstein, Ed.	Ellerslie	*49	April 25, 1900
Krouse, Wilhelm	Spruce Grove	*819	April 14, 1905
Kallis, Ed.	Strathcona	*847	May 26, 1905
Knight, Harry P.	Edmonton	2838	Oct. 28, 1914
Krinke, August	Highland Park	46	Sept. 18, 1905
Kerr, John	Calgary	64	Mar. 9, 1906
Kennedy, Dent	Calgary	124	April 30, 1906
Karmangel, F. R.	Didsbury	154	May 31, 1906
Kiddle, Thomas M.	Stirling	165	Aug. 11, 1906
Kearney, W. J.	Claresholm	178	Aug. 13, 1906
Kjosness, Peder P.	Martins	217	Sept. 13, 1906

*Indicates Certificate was granted by North-West Territories.

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
Kendrews, Jos. W.	Edwell	250	Oct. 5, 1906
Krinkle, Benj.	Highland Park	249	Oct. 5, 1906
Knowles, Kenneth E.	Wetasktwin	264	April 25, 1907
Kremer, David H.	Innisfail	294	May 20, 1907
Kjorsvik, Albert	Eagle Hill	305	May 23, 1907
Kittlitz, Ed.	Bruederheim	329	May 31, 1907
Kenny, John	Calgary	918	Mar. 30, 1909
Knape, Ernest P.	Calgary	344	June 4, 1907
Keegan, Dan	Morley	355	June 4, 1907
Kreamer, Wm. W.	Strathcona	384	June 14, 1907
Keith, Scott	Taber	551	Dec. 26, 1907
Kniseley, Arthur C.	Standoff	1143	Sept. 21, 1909
Klein, Emil F.	Leduc	669	April 27, 1908
Kadlec, Frank	Wetaskiwin	712	May 18, 1908
Kinne, Fred.	Calgary	750	Aug. 28, 1908
Kemp, Robert M.	Ruagh	816	Sept. 28, 1908
Keoster, Carl H.	Granum	834	Oct. 2, 1908
Keeler, Ralph A.	Lethbridge	851	Oct. 6, 1908
Kendrew, John T.	Edwell	888	Mar. 20, 1909
Kalis, Theodore	Edmonton	941	April 2, 1909
King, Charles F.	Macleod	953	April 7, 1909
Knudson, Loues	Killam	1000	April 22, 1909
Knudson, Charles A.	Wetaskiwin	1098	Sept. 10, 1909
King, Benj.	Lethbridge	1227	Mar. 15, 1910
Keffer, J. John	Frank	2707	Mar. 24, 1914
Kitchen, Elroy R.	Cayley	1265	Mar. 24, 1910
Kittlitz, Chrystian	Bruederheim	1307	April 6, 1910
Kneis, Louis	Stony Plain	1308	April 6, 1910
Krutz, John	Calgary	1328	April 8, 1910
Kincade, Jerry	Stirling	1372	April 15, 1910
Klinger, Henry	Calgary	1428	June 14, 1910
Kjosness, Alfred	Martins	1501	Sept. 21, 1910
Kuhl, Edward	Stony Plain	1502	Sept. 21, 1910
Kinnen, Peter	Independence	1509	Sept. 21, 1910
Kruse, Herman	Hastings Coulee	1542	Oct. 7, 1910
Knight, O. L.	Taber	1586	Nov. 17, 1910
Kremper, Ernest	Edmonton	1589	Nov. 23, 1910
Kirkby, Theo.	Lethbridge	1619	Mar. 7, 1911
Kolschorofsky, Ed.	Stony Plain	1698	Mar. 31, 1911
Kirstein, Aug.	Wetaskiwin	1720	April 5, 1911
Klaus, John S.	Gleichen	1739	April 19, 1911
Kincade, Wyet E.	Seven Persons	1796	April 24, 1911
Keller, Fred	Edmonton	2384	Sept. 27, 1912
Kemp, George F.	Calgary	1851	June 13, 1911
Kiviatniowsky, Joe	Heatherwood	1853	June 16, 1911
Klassen, Abm. W.	Acme	1900	Aug. 22, 1911
Kaatz, Ed. A.	Burdett	1912	Aug. 24, 1911
Kelly, John D.	Calgary	1937	Sept. 8, 1911
Kidd, George	Lethbridge	2029	Jan. 16, 1912
Kirkham, John T.	Macleod	2077	Mar. 18, 1912
Kerr, William	Coleman	2079	Mar. 18, 1912
Kilmer, Owen	Suffield	2130	April 4, 1912
Knight, Herbert	Therien	2228	April 29, 1912
Kinsella, Charles A.	Strathcona	2316	June 17, 1912
Kerr, John	Calgary	2342	July 18, 1912
Kuhl, Edward	Calgary	2375	Sept. 19, 1912
Kuhl, Edward	Calgary	2466	Feb. 13, 1913
Kirton, Thomas	Edmonton	2461	Feb. 12, 1913
King, George	Okotoks	2478	Mar. 14, 1913

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
Klentsche, Karl	Medicine Hat	2522	April 15, 1913
King, Archibald	Calgary	2681	Jan. 12, 1914
Kennedy, James	Calgary	2694	Feb. 19, 1914
Keller, Roy B.	Viking	2714	April 2, 1914
Kitchen, Willis E.	Edmonton	2715	April 2, 1914
Keiller, John Wm.	Red Deer	2726	April 16, 1914
Kinrade, John R.	Brooks	2736	April 23, 1914
Kennedy, William	Evansburgh	2739	April 27, 1914
Kane, William	Banff	2759	May 18, 1914
Kinsman, Frederick L.	Calgary	2824	Sept. 21, 1914
Knight, Dan McK.	Calgary	2882	Mar. 26, 1915
Kane, Norman W.	Calgary	2931	Aug. 17, 1915
Lamoureux, Alcide	Lamoureux	*96	Nov. 15, 1900
Lee, George	Edmonton	2442	Dec. 20, 1912
Lewis, Wm. H.	Innisfail	*888	Aug. 28, 1905
Lamoureux, Alp.	Lamoureux	*186	Dec. 18, 1902
Loiselle, Jerry	Red Deer	1599	Jan. 4, 1911
Lundy, Wm. Thomas	Innisfail	*227	April 23, 1902
Lynch, Alex. W.	Blairmore	*259	Aug. 18, 1902
Lyseng, Knut K.	Bittern Lake	*390	Aug. 7, 1903
Lindberg, Erick	Calmar	*510	April 18, 1904
Langhausen, Jacob	Fort Saskatchewan ..	*523	April 18, 1904
Langhausen, Peter	Fort Saskatchewan ..	*524	April 18, 1904
Lee, Andrew E.	Wetaskiwin	*525	April 18, 1904
Lehman, Harrison	Edmonton	*564	Feb. 15, 1908
Logan, John	Penhold	*774	Mar. 24, 1905
Logan, Dan	Red Deer	*783	Mar. 24, 1905
Lee, Oscar E.	Wetaskiwin	*788	Mar. 27, 1905
Long, Albert W.	Namoo	36	Sept. 16, 1905
Lindholm, Andrew G. J.	Burnt Lake	60	Dec. 29, 1905
Lee, Albert	Wetaskiwin	97	April 20, 1906
Laine, Francois P.	Bankhead	138	May 14, 1906
Lambe, Alex.	Didsbury	150	May 30, 1906
Linkous, James B.	Raymond	173	Aug. 13, 1906
Lindsay, Samuel D.	Strathcona	212	Sept. 13, 1906
Lennox, James A.	Red Deer	251	Oct. 5, 1906
Luigi, Liega	Lille	256	Dec. 28, 1906
Lawrence, Frederick S.	Fort Vermilion	544	Oct. 29, 1907
Lawrence, Fenwick N.	Edmonton	260	Feb. 23, 1907
Lavoll, Lewis V.	Evarts	290	May 20, 1907
Lancaster, Robert V.	Calgary	736	July 24, 1908
Latam, Myron B.	Content	371	June 7, 1907
Lehman, Sam	Nanton	438	June 19, 1907
Lamoureux, Hermidas	Lamoureux	502	Oct. 15, 1907
Lamoureux, Albert	Lamoureux	503	Oct. 15, 1907
Lee, Thomas H.	Olds	518	Oct. 24, 1907
Lewis, Lyman L.	Olds	526	Oct. 24, 1907
Lang, William	Okotoks	566	May 23, 1908
Lyon, Omar	Blayney	571	May 23, 1908
Lee, John A.	Edmonton	592	April 2, 1908
Lee, Lars	Leduc	678	April 27, 1908
Loveless, Peter	Lloydminster	707	May 18, 1908
Lucas, Sam B.	Daysland	719	May 18, 1908
Lansing, George	Leavings	1455	Aug. 2, 1910
Littlefield, Chas. W.	Eagle Hill	909	Mar. 26, 1909
Lehman, Peter L.	Pincher Creek	931	April 1, 1909
Laut, Frank	Ena	945	April 6, 1909
Link, Ronald F.	Lethbridge	960	April 9, 1909

*Indicates Certificate was granted by North-West Territories.

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
Lunn, Edward	Stettler	963	April 13, 1909
Lewis, Isaac H.	Killam	1001	April 22, 1909
Long, George S.	Namoo	1039	April 29, 1909
Lunder, Andrew H.	Westerose	1045	April 30, 1909
Leonard, James F.	Seven Persons	1049	May 1, 1909
Larson, Edwin H.	Seven Persons	1050	May 1, 1909
Lindsey, Horace F.	Strathcona	1075	May 26, 1909
Larson, Harry	Langdon	1079	June 1, 1909
LaBonte, Fred.	Calgary	1125	Sept. 21, 1909
Laventure, Arthur	Beaumont	1146	Sept. 25, 1909
Lawrence, Herman M.	Ross Creek	1162	Sept. 29, 1909
Long, Herbert Wm.	Calgary	1187	Dec. 17, 1909
Lawrence, Sheridan	Fort Vermilion	741	Aug. 6, 1908
Laroux, Oliver	Chippewyan	742	Aug. 6, 1908
Lloyd, Roy A.	Carstairs	761	Sept. 11, 1908
Love, Thomas	Hicksburg	835	Oct. 2, 1908
Lindsay, Alvan A.	Calgary	1598	Jan. 6, 1911
Long, Henry G.	Calgary	1450	July 15, 1910
Long, Henry G.	Calgary	1208	Mar. 7, 1910
Lewis, George H.	Calgary	1209	Mar. 7, 1910
Low, Ralph E.	Carmangay	1276	Mar. 29, 1910
Lloyd, John W.	Stavely	1277	Mar. 29, 1910
Lotan, Herbert N.	Strome	1289	April 1, 1910
Linquest, Nils W.	Riviere Qui Barre	1309	April 6, 1910
Leblanc, Raoul	Mayton	1322	April 9, 1910
Lawrella, Michael	Bankhead	1339	April 11, 1910
Lindman, W. L.	Milk River	1359	April 14, 1910
Longacre, Fred.	Taber	1373	April 15, 1910
Levisque, Walter	Medicine Hat	1395	April 25, 1910
Lunn, Arthur B.	Calgary	1401	April 26, 1910
Long, James W.	Calgary	1408	May 19, 1910
Lane, Lewis W.	Bowville	1425	June 11, 1910
Lóng, Fred.	Beiseker	1433	June 14, 1910
Lockhart, Wm.	Kipp	1479	Sept. 1, 1910
Lithgow, John	Reid Hill	1488	Sept. 6, 1910
Lorerm, John	Edmonton	1503	Sept. 24, 1910
Lightall, George B.	Bassano	1524	Sept. 23, 1910
Lambert, Arthur	Redcliff	1533	Sept. 24, 1910
LeGear, Russell C.	Wetaskiwin	1543	Oct. 7, 1910
Lindsay, Robert	Lethbridge	1620	Mar. 7, 1911
Labby, Alfred	La Calmette	1770	April 21, 1911
Lycan, Thomas S.	Bassano	1740	April 10, 1911
Lysham, J. E.	Taber	1756	April 15, 1911
Lambert, John A.	Taber	1785	April 24, 1911
Lee, Ed. A.	Calgary	1809	May 8, 1911
Laughery, James W.	Calgary	1821	May 20, 1911
Lister, Ossie	Lethbridge	1832	May 26, 1911
Lepard, Frank	Edmonton	1887	Aug. 11, 1911
Lake, Arch.	Calgary	1901	Aug. 22, 1911
Lee, John J.	Rosemead	1913	Aug. 24, 1911
Little, Wm. H.	Lethbridge	1944	Sept. 9, 1911
Lambert, Wm. E.	Diamond City	1980	Oct. 24, 1911
Lewis, Gilbert B.	Granum	1984	Oct. 24, 1911
Lefort, Henry	Taber	2013	Dec. 19, 1911
Levis, Everett E.	St. Albert	2024	Jan. 12, 1912
Lacquement, Edward C.	Yetwood	2031	Jan. 16, 1912
Lough, Marshall	Calgary	2039	Feb. 14, 1912
Lewis, Fred.	Beaver Creek	2080	Mar. 18, 1912
Linton, William H.	Parkland	2092	Mar. 22, 1912

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
Lagasse, John L.	Edson	2102	Mar. 25, 1912
Lippold, Herman	Cardston	2157	April 19, 1912
Long, Charles W.	Medicine Hat	2180	April 23, 1912
Lippert, Jacob	Irvine	2181	April 23, 1912
Loritz, Frank	Strathcona	2218	April 29, 1912
Levy, Ira M.	Albion Ridge	2246	May 2, 1912
Lohrman, Chris.	Halkirk	2256	May 3, 1912
Lundh, Bernard	Claresholm	2306	June 14, 1912
Little, Wm. John	Strathcona	2385	Sept. 27, 1912
Lee, William O.	Youngstown	2411	Oct. 23, 1912
Lerbeckmo, Peter O.	Bardo	2428	Dec. 13, 1912
Lindquist, Carl	Edmonton	2462	Feb. 12, 1913
Lain, John Theo	Edmonton	2848	Dec. 11, 1914
Lee, William S.	Edmonton	587	Aug. 2, 1904
Lees, Edward	Edmonton	2633	Sept. 25, 1913
Lindsay, Charles B.	Greenshields	2740	April 27, 1914
Lamont, Hugh	Peace River Crossing	2700	Mar. 5, 1914
Lechlietner, Frank	Edmonton	2763	May 19, 1914
Lechlietner, A. Hugh	Edmonton	2764	May 19, 1914
Larson, Harry	Munson	2833	Oct. 20, 1914
Leeming, James	Calgary	2929	July 14, 1915
Morkin, John	Dunbow	*39	Dec. 1, 1899
Martin, M. Z.	Morinville (susp.)	*56	May 28, 1900
Mitchell, Tim W.	Red Deer	*119	Feb. 7, 1901
Mather, E. M.	Calgary	*133	June 6, 1901
Morden, Jacob R.	Lacombe	*187	Dec. 18, 1901
Moore, John R.	Innisfail	*190	Dec. 18, 1901
Munier, Wilfred	Stony Plain	*199	Dec. 18, 1901
Miller, Philip	Morinville	*201	Dec. 18, 1901
Meneely, Wm.	Edmonton	*204	Dec. 18, 1901
Mikethus, Michael	Leduc	*210	Dec. 18, 1901
Morkeberg, D.	Innisfail	*232	April 23, 1902
Martin, Henry E.	Wardner	*854	June 13, 1905
Mooney, W. S.	Lacombe	*513	April 18, 1904
Murray, A. A.	St. Albert	*536	April 18, 1904
Meunier, J. H.	Morinville	*537	April 18, 1904
Meredith, Wilbert	Edmonton	*538	April 18, 1904
Mathews, George	Strathcona	*636	Oct. 15, 1904
Morgan, Oscar	Strathcona	*643	Oct. 15, 1904
Maxfield, W. H.	Namoo	*646	Oct. 15, 1904
Mead, Francis A.	Pincher Creek	*678	Dec. 30, 1904
May, Daniel	Blairmore	*681	Jan. 21, 1905
Mew, John	Calgary	*750	Mar. 24, 1905
Muir, William J.	Ponoka	1959	Sept. 23, 1911
Marler, Walter	Clover Bar	*799	Mar. 31, 1905
Mohr, John J.	Edmonton	*870	July 6, 1905
Morel, H. F.	Edmonton	37	Sept. 16, 1905
Melnyk, William	Star	40	Sept. 18, 1905
Mason, James D.	Clover Bar	43	Sept. 18, 1905
Moss, Richard	Edmonton	*81	Mar. 26, 1905
Mahood, Robert F.	Buford	94	April 11, 1906
Murray, Dan L.	Bentley	105	April 24, 1906
Mitchell, Joseph C.	Tees	111	April 25, 1906
Moritz, Henry C.	Olds	146	May 31, 1906
Moritz, Louis J. A.	Olds	148	May 31, 1906
Morkeberg, Holger	Markerville	157	May 31, 1906
Maxwell, Tim	Claresholm	180	Aug. 13, 1906
Murray, Thomas N.	Medicine Hat	171	Aug. 11, 1906

*Indicates Certificate was granted by North-West Territories.

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
Muir, George A.	Morrissey	877	Feb. 1, 1909
Maunchaw, Aug.	Strathcona	218	Sept. 13, 1906
Mead, Wm.	Edmonton	221	Sept. 13, 1906
Maxfield, George A.	Namoo	236	Sept. 13, 1906
Miller, Dick F.	Blackfalds	241	Sept. 27, 1906
Malcher, Charles	Wetaskiwin	246	Oct. 5, 1906
Miller, Jones P.	Delnorte	334	May 31, 1907
Morrison, Avarid L.	Calgary	348	June 4, 1907
Martin, John C. B.	Calgary	2768	June 11, 1914
Moody, James Wm.	Brocket	363	June 4, 1907
Morter, Charles J.	Iowalta	2490	Mar. 20, 1913
Miller, William H.	Brant	420	June 19, 1907
Morrow, Joseph W.	Roundup	460	July 15, 1907
Meldrum, David (Jr.)	Raymond	466	July 15, 1907
Manning, James A.	Cowley	471	July 16, 1907
Munro, Milo	Gleichen	484	Aug. 28, 1907
Martin, Charles A.	High River	487	Sept. 4, 1907
Miller, Fred C.	Cooking Lake	496	Oct. 15, 1907
Munro, Fred.	Innisfail	510	Oct. 22, 1907
Morden, John	Lacombe	925	Mar. 30, 1909
Malchow, G. E. A.	Earlville	538	Oct. 28, 1907
Mignault, Joseph C.	Calgary	579	Mar. 23, 1908
Middleton, Archie C.	Nanton	583	Mar. 23, 1908
Marshall, Frank P.	Spring Point	600	April 8, 1908
May, Alex. S.	Lille	1631	Mar. 7, 1911
Millar, T. B.	Burnt Lake	641	April 14, 1908
Marson, Charles H.	Medicine Hat (dup.) ..	735	July 15, 1908
Mitchell, Franklin A.	Medicine Hat	664	April 27, 1908
Miles, James	Vermilion	667	April 27, 1908
Mark, David McK.	Mannville	1189	Dec. 29, 1909
Marler, James T.	Crossfield	683	May 1, 1908
Martin, Landis	Stettler	686	May 1, 1908
Millar, John F.	Bentley	694	May 6, 1908
Munro, Alex. A.	Lockhart	696	May 6, 1908
Morris, Wm. H.	Wetaskiwin	698	May 6, 1908
Maurice, Frank E.	Edmonton	730	May 26, 1908
Maxwell, John W.	Cochrane	731	June 12, 1908
Morris, James E.	Lochend	732	June 29, 1908
Morris, James W.	Canmore	734	June 29, 1908
Morton, Lewis R.	Athabasca Landing ..	745	Aug. 6, 1908
Mott, Henry J.	Red Deer	2760	May 18, 1914
Murray, James	Murray Valley	757	Sept. 8, 1908
Mortlette, H. C.	Edmonton	778	Sept. 18, 1908
Masse, Louis	Legal	788	Sept. 21, 1908
Mulligan, George B.	Bon Accord	789	Sept. 21, 1908
Miller, Jacob	Stony Plain	790	Sept. 21, 1908
Marshall, Robert E.	Raymond	852	Oct. 6, 1908
Murphy, Edward F.	Strathcona	875	Jan. 8, 1909
Morris, Andrew	Calgary	882	Mar. 19, 1909
Mitchell, Ava D.	Aldersyde	935	April 2, 1909
Munson, James B.	Reid Hill	936	April 2, 1909
Moore, Corey G.	Macleod	954	April 7, 1909
Mudiman, David L.	Macleod	955	April 8, 1909
Myers, James	Claresholm	970	April 16, 1909
Myers, Roy C.	Claresholm	971	April 16, 1909
Mulligan, Jos.	Canmore	1026	April 28, 1909
Mundell, Wm. G. R.	Lethbridge	1054	May 3, 1909
Monson, Joseph	Camrose	1092	Sept. 7, 1909
Miller, James	Diamond City	1104	Sept. 15, 1909

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
Marr, Robert	Edmonton	1164	Sept. 29, 1909
Miller, Herman A.	Edmonton	1175	Oct. 27, 1909
Morris, John	Wild Horse	1177	Nov. 13, 1909
Muirhead, James W.	Calgary	1210	Mar. 7, 1910
Mitchell, Wesley C.	Calgary	1211	Mar. 7, 1910
Morningstar, Roy	Lethbridge	1229	Mar. 15, 1910
Martin, Wm. A.	Lethbridge	1230	Mar. 15, 1910
Malchow, Fred C.	Claresholm	1278	Mar. 29, 1910
Mach, Jos.	Camrose	1291	April 1, 1910
Mildon, Wm. L.	Ponoka	1301	April 5, 1910
Mueller, Mike M.	Warner	1361	April 14, 1910
Mahood, C. J.	New Dayton	1362	April 14, 1910
Mayberry, Wm.	Warner	1363	April 14, 1910
Mitchell, Wm.	Calgary	1386	April 21, 1910
Miles, John	Lethbridge	1388	April 22, 1910
Merkel, Jacob F.	Irvine	1396	April 25, 1910
Morley, Wm. N.	Morningside	1405	Mar. 17, 1910
Mogridge, John Jas.	Copeville	1420	June 9, 1910
Molton, Earl	Calgary	1464	Aug. 29, 1910
Michaelis, Eddie	Milk River	1481	Sept. 1, 1910
Marshall, Wm. J.	Calgary	1525	Sept. 23, 1910
Malcolm, Roy	Calgary	1526	Sept. 23, 1910
Moses, George	Medicine Hat	1534	Sept. 24, 1910
Muir, George H.	Ponoka	1982	Oct. 24, 1911
Matson, Charles	Calgary	1577	Oct. 20, 1910
Mudra, Charles	Frank	2081	Mar. 18, 1912
Matheson, Murdock R.	Granum	1645	Mar. 15, 1911
Musser, Angus	Rassano	1654	Mar. 20, 1911
Mansell, Wm.	Canmore	1741	April 19, 1911
Moran, George I.	Langdon	1766	April 19, 1911
Martin, Wm.	Sandstone	2573	May 19, 1913
Martin, A. W.	Taber	1786	April 24, 1911
Maker, Edgar L.	Seven Persons	1787	April 24, 1911
Malton, John W.	Calgary	1806	May 6, 1911
Murrell, Vasco E.	Hardisty	1810	May 13, 1911
Melanson, Norman M.	Edmonton	1815	May 18, 1911
Mattison, Fred	Flairmore	1834	May 26, 1911
Murphy, Matthew	Granum	1835	May 26, 1911
Mayberry, J. R.	Red Deer	1855	June 17, 1911
Mah, Sam	Edmonton	1871	July 12, 1911
Miller, Wm. G.	Ryley	1893	Aug. 16, 1911
Merrit, Ezra M.	Noble	1914	Aug. 24, 1911
Milligan, John L.	Burdett	1920	Aug. 25, 1911
Mickleson, George A.	Calgary	2041	Feb. 14, 1912
Miniekler, John	Calgary	1925	Aug. 26, 1911
Morrison, Wm. V.	Red Deer	1930	Sept. 7, 1911
Miller, Edward S.	Spring Coulee	1945	Sept. 9, 1911
Meldrum, John C.	Lethbridge	1947	Sept. 9, 1911
Mullin, James	Edmonton	1955	Sept. 9, 1911
Mildren, Wm. George	Airdrie	1972	Oct. 20, 1911
Morgan, Jacob	Lethbridge	1981	Oct. 24, 1911
Melle, Ed. L.	Carlstadt	1994	Nov. 16, 1911
Melnyk, Fred	Star	2049	Feb. 23, 1912
Murray, Wm. B.	Magrath	2062	Mar. 13, 1912
Miller, Henry J.	Claresholm	2063	Mar. 13, 1912
Malchow, Max E.	Stavely	2645	Nov. 11, 1913
Morris, Ernest	Gladys	2111	Mar. 28, 1912
Mikshus, John	Leduc	2115	April 1, 1912
Meiklejohn, Lindsay	Provost	2144	April 10, 1912

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—Continued.

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
Montgomery, George	Clover Bar	2233	April 29, 1912
Miller, Clarence H.	Raymond	2247	May 2, 1912
Moon, Wm. C.	Elkton	2257	May 3, 1912
Mills, Edward H.	Bentley	2258	May 3, 1912
Martin, Arthur	St. Paul de Metis	2324	July 12, 1912
Massicotte, Omer	St. Paul de Metis	2325	July 12, 1912
Mullock, James I.	Edmonton	2334	July 16, 1912
Manning, Timothy	Calgary	2343	July 18, 1912
Miller, Charles C.	Calgary	2344	July 18, 1912
Murphree, William N.	Calgary	2345	July 18, 1912
Moulton, August	Clover Bar	2359	Aug. 12, 1912
Miller, Alex.	Bassano	2363	Aug. 20, 1912
Murray, Thomas H.	Medicine Hat	2400	Oct. 17, 1912
Mitchell, Geo. Henry	Calgary	2406	Oct. 19, 1912
Mackwood, Samuel	Lethbridge	2419	Nov. 13, 1912
Miller, Ellis G.	Edmonton	2429	Dec. 13, 1912
May, Albert	Bellevue	2433	Dec. 13, 1912
Mallott, Bernard B.	Calgary	2452	Jan. 15, 1913
Miller, David	Diamond City	2472	Feb. 19, 1913
Mack, Wilfred	Round Hill	2500	Mar. 28, 1913
Miller, Gilbert	Hillcrest	2544	April 23, 1913
Mowat, James	Medicine Hat	2566	May 15, 1913
Moore, James	Lethbridge	2568	May 15, 1913
Mitchell, Walter J. B.	Edmonton	2577	May 20, 1913
Murdock, George	Bassano	2771	June 17, 1914
Moller, George	Wainwright	2663	Dec. 17, 1913
Main, William R.	Calgary	2669	Dec. 17, 1913
Mjolsness, Alfred	Didsbury	2839	Nov. 14, 1914
Milton, Charles	Calgary	2696	Feb. 19, 1914
Moynes, Frederick	Medicine Hat	2702	Mar. 16, 1914
Marvin, Walter	Drumheller	2890	April 8, 1915
Martin, Henry F. A.	Edmonton South	2730	April 17, 1914
Marsh, George H.	Edmonton	2745	April 29, 1914
Murphy, Albert E.	Edmonton	2752	May 13, 1914
Machin, William S.	Coleman	2775	June 17, 1914
Mould, Samuel	Calgary	2799	July 18, 1914
Mills, Clinton Guy	Calgary	2800	July 18, 1914
Meitzler, Clarence E.	Peace River Crossing	2802	July 25, 1914
Moses, Gilbert R.	Lethbridge	2807	Aug. 12, 1914
Martin, Joseph A.	Edmonton	2829	Sept. 30, 1914
Makepeace, Walter C.	Banff	2836	Oct. 20, 1914
Mathie, John	Bankhead	2837	Oct. 20, 1914
Murphy, Francis	Calgary	2846	Nov. 23, 1914
Mischkowsky, August	Wetaskiwin	2865	Feb. 12, 1915
Milstead, Frederick B.	Coronation	2868	Mar. 12, 1915
Miller, William	Drumheller	2891	April 8, 1915
Matz, Odey	Edmonton	2893	April 10, 1915
Milne, George K.	Calgary	2909	April 23, 1915
Moses, Edwin	Medicine Hat	2920	June 11, 1915
Morrell, George	Calgary	2958	Nov. 20, 1915
McKernan, James	Edmonton	*28	Oct. 9, 1899
McDonald, Findlay	Sturgeon	*86	Oct. 23, 1900
McLellan, John	Fort Saskatchewan	*93	Nov. 15, 1900
McLeod, M. J.	Fort Saskatchewan	*94	Nov. 15, 1900
McKellar, John	Fort Saskatchewan	*95	Nov. 15, 1900
McKinley, Murdock	Stony Plain	*203	Dec. 18, 1901
McLean, Archibald	Lethbridge	*250	Aug. 18, 1902
McLean, Alix M.	Calgary	*347	Mar. 9, 1902

*Indicates Certificate was granted by North-West Territories.

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
McGarry, Fred.	Lacombe	*355	April 24, 1903
McDonald, Wm.	Penhold	*369	May 13, 1903
McConnell, James R.	Red Deer	*372	May 13, 1903
McLean, James A.	Star	*539	April 18, 1904
McDiarmid, A. D.	Edmonton	*540	April 18, 1904
McFayden, John R.	Strathcona	*553	June 3, 1904
McDonald, Malcolm	Mountain Hill	*594	Sept. 14, 1904
McLeod, D. J. W.	Strathcona	766	Sept. 11, 1908
McKenzie, Dan	Lacombe	*760	Mar. 24, 1905
McInroy, Paul	Edwell	*773	Mar. 24, 1905
McEachern, Malcolm	Leduc	*792	Mar. 27, 1905
McCarthy, James	Calmar	*793	Mar. 27, 1905
McDonald, Dan	Morinville	66	Mar. 16, 1906
McCallum, Albert W.	Beaver Lake	95	April 18, 1906
McAnnally, Peter J.	Crossfield	153	May 31, 1906
McLean, Wm. John	Hillcrest	188	Aug. 13, 1906
McPherson, James P.	Bentley	1416	May 23, 1910
McNutt, Watson	Medicine Hat	262	April 6, 1907
McCune, Oscar	Red Deer	289	May 20, 1907
McGregor, Wm. W.	Blackfalds	298	May 20, 1907
McDonnell, Archie A.	Calgary	339	June 4, 1907
McIvor, David S.	Marwayne	388	June 14, 1907
McWhirter, James A.	Camrose	408	June 14, 1907
McAllister, Donald C.	Lethbridge	1088	Aug. 20, 1909
McAllister, Alfred	Claresholm	468	July 15, 1907
McGhan, Silas S.	Clover Bar	493	Oct. 15, 1907
McLean, Laughlin	Innisfail	512	Oct. 22, 1907
McGuire, Thomas	Lacombe	535	Oct. 28, 1907
McLean, Garnet W.	Calgary	558	Jan. 20, 1908
McPhee, John	Edmonton	596	April 2, 1908
McDonald, Hugh D.	Frank	605	April 8, 1908
McCutcheon, B. H.	Pincher Creek	631	April 9, 1908
McRae, Duncan A.	Taber	633	April 9, 1908
McRoberts, And.	Pine Lake	644	April 14, 1908
McDougall, Wm.	Mewassin	655	April 22, 1908
McIvor, Wm.	Marwayne	668	April 27, 1908
McDermid, Alex. M.	Elkwater	703	May 14, 1908
McIntosh, Duncan D.	Three Hills	795	Sept. 22, 1908
McCall, Samuel D.	Pincher Creek	932	April 1, 1909
McPherson, Jabez B.	Bentley	946	April 6, 1909
McKenzie, John A.	Edmonton	1067	May 21, 1909
McPherson, Adam	Red Deer	1089	Aug. 24, 1909
McKenzie, George	Lethbridge	1106	Sept. 15, 1909
McKenzie, Wesley J.	Brant	1537	Sept. 28, 1910
McCausland, Charles A.	Calgary	1973	Oct. 20, 1911
McCallum, Jos.	Beaver Lake	1163	Sept. 29, 1909
McAllister, Donald C.	Diamond City	1228	Mar. 15, 1910
McLaughlin, Lorne	Cardiff	1310	April 8, 1910
McLaughlin, Wm. E.	Okotoks	1329	April 8, 1910
McGibbon, Robert F.	Taber	1374	April 15, 1910
McCauley, Charles	New Dayton	1426	June 11, 1910
McBlane, Donald	Cowley	1427	June 11, 1910
McPherson, John	Calgary	2209	April 26, 1912
McTighe, Frank B.	Lethbridge	1437	July 8, 1910
McKenna, Felix	Cochrane	1449	July 15, 1910
McPherson, Alec	Blairmore	1470	Aug. 31, 1910
McLeod, James W.	Leslieville	1516	Sept. 21, 1910
McLeod, John B.	Innisfail	1517	Sept. 21, 1910
McGlenn, Lester S.	Lethbridge	1569	Oct. 20, 1910

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Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
McDonald, Wm. F.	Lethbridge	1570	Oct. 19, 1910
McAuley, Dan	Kipp	2933	Nov. 8, 1915
MacKay, Duncan	Sandstone	2671	Dec. 17, 1913
McLean, James	Edmonton	1667	Mar. 25, 1911
McMullin, Alp. L.	Raymond	1682	Mar. 28, 1911
McLeod, Angus	Stettler	1721	April 5, 1911
McLaughlin, James M.	Bassano	1742	April 10, 1911
McLean, Hugh	Cummings	1771	April 21, 1911
McLean, Niven P.	Beiseker	1807	May 6, 1911
McGlen, Robert M.	Lethbridge	1833	May 26, 1911
McDermand, Charles C.	Alix	1854	June 17, 1911
McKerriher, W. R.	Pincher Creek	1864	June 20, 1911
McCrae, Ern A.	Lethbridge	1865	June 20, 1911
McLaughlin, Elmer	Edmonton	1896	Aug. 18, 1911
McClennand, Allan	Fishburn	1946	Sept. 9, 1911
McCarthy, James S.	Hand Hills	1995	Nov. 16, 1911
McAlduff, Edward	Camrose	2684	Feb. 3, 1914
McCall, Frank M.	Red Willow	2040	Feb. 14, 1912
McLellan, Murdock	Edmonton	2048	Feb. 23, 1912
McDonald, Robert A.	Lethbridge	2121	April 2, 1912
McMahon, James F.	Pleasington	2143	April 10, 1912
McDaniel, Hugh C.	Whitla	2182	April 23, 1912
McInnis, William	Cummings	2222	April 29, 1912
McDonald, Wm. A.	Wainwright	2234	April 29, 1912
McRitchie, Murray	Coleman	2267	May 18, 1912
McMillen, Allan D.	Edmonton	2954	Nov. 9, 1915
McClintock, Warren	St. Albert	2317	June 17, 1912
McDonald, Charles E.	Edmonton	2318	June 17, 1912
MacAuley, William	St. Paul de Metis	2332	July 16, 1912
McCann, John A.	Calgary	2364	Aug. 20, 1912
McDevitt, Wm. J.	Edmonton	2386	Sept. 27, 1912
McDonald, Angus	Edmonton	2387	Sept. 27, 1912
McTavish, Hugh R.	Fort Saskatchewan ..	2413	Nov. 8, 1912
McInroy, John C.	Innisfail	1555	Oct. 17, 1910
McInroy, John C.	Innisfail	2458	Jan. 24, 1913
McCutcheon, William	Edmonton South	2047	Feb. 23, 1912
McCutcheon, William	Edmonton South	2786	June 22, 1914
McMichael, Ernest W.	Calgary	2467	Feb. 13, 1913
McIntosh, Harry	Cardston	2471	Feb. 19, 1913
McIntee, James	Beaver Mines	2487	Mar. 19, 1913
McCarthy, William	Entwistle	2493	Mar. 26, 1913
McDevitt, James J.	Toffield	2553	May 3, 1913
McClellan, Daniel	Entwistle	2576	May 20, 1913
McKay, Charles	Macleod	2587	June 19, 1913
McGinnis, James	Burmis	2834	Oct. 20, 1913
McCulloch, Wm. H.	Lundbreck	2658	Dec. 16, 1913
McKenzie, David A.	Edmonton	2677	Jan. 12, 1914
McNeil, Duncan	Bassano	2695	Feb. 19, 1914
McCartney, Grant	Edmonton	2744	April 29, 1914
McCubbins, Charles H.	Brooks	2754	May 13, 1914
McDonald, John	Beaver Mines	2776	June 17, 1914
McRae, Daniel	Vermilion	2793	July 16, 1914
MacKenzie, Roderick	Edmonton	2811	Aug. 17, 1914
McLeod, William J.	Calgary	2817	Aug. 22, 1914
McNeill, Rowland E.	Ogden	2835	Oct. 20, 1914
McCrae, Richard	Edmonton	2849	Dec. 11, 1914
McCracken, Thomas	Clover Bar	2850	Dec. 11, 1914
McDonald, George A.	Pincher Creek	454	July 15, 1907
McDonald, George A.	Pincher Creek	2874	Mar. 23, 1915

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—Continued.

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
McKay, Ray A.	Stettler	2856	Jan. 8, 1915
McGregor, James	Cardiff	2902	April 20, 1915
McDonald, Floyd J.	Kinnaird	2903	April 20, 1915
McKee, George H.	High River	2910	April 23, 1915
McLaren, Alex.	Nordegg	2913	May 7, 1915
McGregor, Allan B.	Edmonton South	2935	Aug. 24, 1915
McCarthy, Sidney	Drumheller	2943	Sept. 28, 1915
McGibbern, Wilfred	Drumheller	2951	Oct. 15, 1915
McDonald, Wm. John	Edmonton	2959	Dec. 7, 1915
Nelson, Frank	Wetaskiwin	*60	May 30, 1900
Nichol, David	Innisfail	*191	Dec. 18, 1901
Noyes, Dan E.	St. Albert	*197	Dec. 18, 1901
Nichols, James J.	Edmonton	*358	May 13, 1903
Niven, John	Lethbridge	*451	Oct. 6, 1903
Nehr, William A.	Edmonton	75	Mar. 26, 1906
Nehr, Henry R.	Edmonton	245	Sept. 28, 1906
Noel, Kenneth E.	Canyon	113	April 25, 1906
Nelson, Wilfred	Calgary	119	April 30, 1906
Nelson, Arthur W.	Edmonton	132	May 10, 1906
Neeb, Louis	Edmonton	161	June 5, 1906
Nichols, Alex. J.	Edmonton	220	Sept. 13, 1906
Neis, George M.	Lamerton	228	Sept. 20, 1906
Norlie, Hackon C.	Edmonton	501	Oct. 15, 1907
Nixon, Robert J.	Crossfield	524	Oct. 24, 1907
Neis, Philip	Lamerton	530	Oct. 24, 1907
Neilson, George	Haynes	540	Oct. 28, 1907
Nadeau, T. Eudore	Lavoy	675	April 27, 1908
Nichols, Wm. R.	Edmonton	729	May 26, 1908
Neufeld, Abraham J.	Neapolis	762	Sept. 11, 1908
Neufeld, Peter W.	Noelton	763	Sept. 11, 1908
Neate, Harry	Edmonton	779	Sept. 18, 1908
Newsome, Wm. H.	Calgary	796	Sept. 22, 1908
Norgaard, Peter J.	Calgary	797	Sept. 22, 1908
Norton, Paul	Reid Hill	836	Oct. 2, 1908
Nemsgern, John	Claresholm	837	Oct. 2, 1908
Neville, Fred R.	Mountain View	853	Oct. 6, 1908
Norrie, James	Medicine Hat	1051	May 1, 1909
Nelson, Peter L.	Arhisk	1093	Sept. 7, 1909
Naylor, Edward H.	Morinville	1165	Sept. 29, 1909
Nelson, Christ	Medicine Hat	1186	Dec. 17, 1909
Nicholson, John M.	Landbreck	1253	Mar. 21, 1910
Neil, N. Walter	Coleman	1471	Aug. 31, 1910
Needham, Harry H.	Edmonton	1606	Jan. 23, 1911
Noble, William John	High River	1656	Mar. 20, 1911
Nelson, Willard T.	Sunnyslope	1722	April 5, 1911
Nichols, John D.	Lethbridge	1788	April 24, 1911
Nelson, Joseph	Brant	2112	Mar. 28, 1912
Noland, Lars	Cardston	2122	April 2, 1912
Nelson, Charles F.	Bonnie Glen	2145	April 10, 1912
Nelson, Ernest W.	Calgary	2210	April 26, 1912
Neufeld, Abram W.	Noelton	2259	May 3, 1912
Neggerson, Edward	Calgary	2279	May 22, 1912
Nelson, Earl Alex.	Calgary	2365	Aug. 20, 1912
Nickerson, Joseph H.	Strome	2578	May 20, 1913
Nicholls, Milton P.	Edmonton	*740	Mar. 16, 1905
Nagel, Philip	Edmonton	2753	May 13, 1914
Nicolaeff, Nicholas	Morningside	2869	Mar. 12, 1915
Norman, James Henry	Cochrane	2879	Mar. 26, 1915

*Indicates Certificate was granted by North-West Territories.

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
Nellson, George	Lake Thelma	2898	April 16, 1915
Nicholson, William B.	Carlstadt	2918	May 18, 1915
Nicholson, George	Forest Lawn	2952	Oct. 25, 1915
Ottewell, Richard P.	Edmonton	*27	Oct. 9, 1899
Omand, John	Edmonton	*522	April 14, 1904
Olsen, H. B.	Ellerslie	*542	April 18, 1904
Oliver, Wesley N.	Wostok	*814	April 14, 1905
Olsen, Gilbert E.	Star	2358	Aug. 8, 1912
Ottewell, Albert	Clover Bar	77	Mar. 26, 1906
O'Dell, George W.	High River	733	June 22, 1908
Orford, Andrew B.	Macleod	478	July 15, 1907
Oberg, Knute L.	Strathcona	491	Oct. 15, 1907
Oliver, Peter C.	Calgary	562	Jan. 20, 1908
Oakes, Louis D.	Claresholm	567	Mar. 23, 1908
O'Connor, John	Mossleigh	568	Mar. 28, 1908
Oler, George, Jr.	Stirling	602	April 8, 1908
Orser, John R.	Tristram	1333	April 9, 1910
O'Reilly, C.	Bells Hill	784	Sept. 18, 1908
Olson, Matz	Wilton Park	817	Sept. 28, 1908
Oster, Carl	Good Hope	818	Sept. 28, 1908
Orr, Alfred E.	Irvine	854	Oct. 6, 1908
Osborne, Homer	Taber	855	Oct. 6, 1908
Olson, Elmer A.	Prairie View	891	Mar. 24, 1909
Ostby, Anton	Strathmore	1027	April 28, 1909
O'Brien, Roy	Raymond	1107	Sept. 15, 1909
Orr, Joshua	Irvine	1154	Sept. 28, 1909
Ostlund, Gustav	Stirling	1231	Mar. 15, 1910
O'Connell, Patrick B.	Raymond	1317	April 7, 1910
Ohlson, Carl L.	Millarville	1409	May 19, 1910
Ohrn, Carl H.	Ohrnville	1557	Oct. 17, 1910
Omang, Carl A.	Stettler	1675	Mar. 24, 1911
Ostby, Charles	Milk River	1688	Mar. 29, 1911
Ormson, Joseph J.	Ryley	1699	Mar. 31, 1911
Oliver, Robert T.	Grassy Lake	1705	Mar. 31, 1911
O'Connor, Pat J.	Carlstadt	1744	April 10, 1911
Odell, Ed.	Calgary	1822	May 20, 1911
Ottewell, Arthur J.	Clover Bar	1894	Aug. 16, 1911
Olsen, J. Gilbert	Burdett	1915	Aug. 24, 1911
Olson, Albert Joseph	Coleman	2030	Jan. 16, 1912
O'Daniels, John W.	Coaldale	2064	Mar. 13, 1912
O'Rourke, John O.	Irma	2104	Mar. 25, 1912
Olberg, Christian	Holden	2199	April 24, 1912
O'Neil, Thomas A.	Mile 43	2238	April 30, 1912
Ottewell, William R.	Clover Bar	2264	May 8, 1912
Olson, Frank Oscar	Calgary	2346	July 18, 1912
Oxford, Stephen	Edmonton	2388	Sept. 27, 1912
Oaks, John W.	Edmonton	2430	Dec. 13, 1912
Orvold, Arne E.	Redcliff	2475	Mar. 10, 1913
Olson, Olaf	Pocahontas	2494	Mar. 26, 1913
O'Neel, Edward	Kananaskis	2511	April 7, 1913
Olson, Ole M.	Blairmore	2610	July 18, 1913
O'Hara, Charles R.	Edmonton	2620	Aug. 21, 1913
Ogden, Herman E.	Pincher City	2708	Mar. 24, 1914
Oliver, William	Calgary	2697	Feb. 19, 1914
O'Hara, Arthur J.	Carmanagay	2721	April 15, 1914
Ousman, Joel	Calgary	2779	June 20, 1914
Orr, Ernest Joseph	Edmonton	2851	Dec. 11, 1914
O'Connell, James	N. Edmonton	2914	May 12, 1915

*Indicates Certificate was granted by North-West Territories.

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
O'Sullivan, Pat	Bankhead	2932	Aug. 19, 1915
O'Neal, Frank E.	Edmonton	2936	Aug. 24, 1915
Pierce, George J.	Red Deer	*46	Mar. 8, 1900
Pearce, James	Edmonton	*87	Oct. 23, 1900
Putman, Albert E.	Edmonton	*202	Dec. 18, 1901
Powell, James A.	Edmonton	*208	Dec. 18, 1901
Pearce, William	Edmonton	*229	April 23, 1902
Pimm, John	Lethbridge	*258	Aug. 18, 1902
Pullshiy, William	Star	*384	June 23, 1903
Pullesen, Peter	Calgary	*492	Mar. 14, 1904
Piper, F. E.	Red Deer	*546	April 18, 1904
Porter, Gerard A.	Red Deer (dup.)	*851	June 6, 1905
Peterson, Robert F.	Wetaskiwin	*789	Mar. 27, 1905
Pipegrass, Frederick	Raymond	24	Sept. 16, 1905
Pearson, Herbert S.	Red Deer	62	Dec. 29, 1905
Pefluger, George	Wetaskiwin	98	April 20, 1906
Peterson, Martin E.	Claresholm	179	Aug. 13, 1906
Pitmann, Wm. T.	Wetaskiwin	279	May 15, 1907
Pratt, Arthur W.	Three Hills	300	May 23, 1907
Patterson, Johnston	Strathcona	308	May 23, 1907
Pyle, Joshua	Langdon	354	June 4, 1907
Peterson, Alfred L.	Heatherbrae	397	June 14, 1907
Phillips, Fred H.	Frank	476	July 15, 1907
Pylypow, Wasyl	Star	504	Oct. 15, 1907
Prehn, Emil N.	Strome	508	Oct. 15, 1907
Peterson, Fred. A.	Wetaskiwin	529	Oct. 28, 1907
Page, Sam James	Lacombe	532	Oct. 28, 1907
Pethick, Roy W.	Okotoks	1331	April 8, 1910
Pozin, Otto E.	Claresholm	577	Mar. 23, 1908
Peat, George A.	Lethbridge	611	April 8, 1908
Power, Eugene	Lethbridge	615	April 8, 1908
Peat, James T.	Lethbridge	619	April 8, 1908
Phillips, Walter I.	Magrath	620	April 9, 1908
Peters, Andy	Blairmore	621	April 9, 1908
Peterson, Anton	Evarts	638	April 14, 1908
Piersall, Wm. S.	Harmattan	646	April 14, 1908
Putnam, Orlean E.	Edmonton	666	April 27, 1908
Pail, Jos., Jr.	Prague	717	May 18, 1908
Phillips, Wm. J.	Clover Bar	725	May 18, 1908
Papineau, Francis C.	Battle Lake	727	May 18, 1908
Parker, David L.	Penhold	753	Sept. 3, 1908
Parmelee, J. M.	Bluff Centre	771	Sept. 14, 1908
Park, Hugh A.	Placington	785	Sept. 18, 1908
Parsons, Harry	Okotoks	2542	April 23, 1913
Philpot, Joseph	Pawlf	807	Sept. 25, 1908
Podgarmy, Mike	Leduc	819	Sept. 28, 1908
Porter, Wm.	Stavelly	838	Oct. 2, 1908
Peak, Joseph H.	Pokahasset	870	Nov. 26, 1908
Payzant, John M.	Edmonton	873	Dec. 23, 1908
Paul, Karl	Strathcona	880	Mar. 4, 1909
Prout, Thomas R.	Medicine Hat	904	Mar. 26, 1909
Peterson, Martin O.	Hicksburg	937	April 2, 1909
Passmore, Thos. A.	Contant	964	April 13, 1909
Pouilot, Emil E.	Taber	1014	April 25, 1909
Pickering, George	Canmore	1030	April 28, 1909
Pierce, Alfred	Lamont	1040	April 29, 1909
Parsons, Henry	Lac Ste. Anne	1041	April 29, 1909
Purmal, Jacob	Medicine Hat	1052	May 1, 1909

*Indicates Certificate was granted by North-West Territories.

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
Paget, Thomas J.	Claresholm	1128	Sept. 21, 1909
Piper, T. J.	Calgary	1212	Mar. 7, 1910
Powell, John	Lucky Strike	1233	Mar. 15, 1910
Paulsons, Paul	Lethbridge	1236	Mar. 15, 1910
Pattinson, George	Frank	1254	Mar. 21, 1910
Parkin, David	MacLeod	1268	Mar. 28, 1910
Piepgas, Valdemar	Raymond	1318	April 7, 1910
Pearson, Richard V.	Okotoks	1330	April 8, 1910
Puntus, Frank	Airdrie	1340	April 11, 1910
Paradis, Felix	Tofield	1349	April 13, 1910
Parker, John W.	Bow Island	1379	April 19, 1910
Perks, Charles	High River	1410	April 19, 1910
Phillips, William	Calgary	1451	July 15, 1910
Purcell, Frank	Taber	1510	Sept. 21, 1910
Peterson, Emil	Heatherbrae	1538	Sept. 28, 1910
Parker, Ralph A.	Lewisville	1544	Oct. 7, 1910
Potter, John	Royton	1553	Oct. 17, 1910
Pearce, Gilbert E.	Edmonton	1651	Oct. 19, 1910
Parson, Howard E.	Pine Creek	1604	Jan. 20, 1911
Pike, Fred G.	Edmonton	1668	Mar. 22, 1911
Pederson, S. M.	Warner	1689	Mar. 29, 1911
Prouty, Hiram	Lost Lake	1706	Mar. 31, 1911
Peterson, Soreng	Hand Hills	1745	April 10, 1911
Porter, J. E.	Medicine Hat	1757	April 15, 1911
Parnell, Fred. K.	Medicine Hat	1758	April 15, 1911
Phillips, Harvey G.	Cardiff	1772	April 21, 1911
Pratt, Wm. W.	Ponoka	1856	June 17, 1911
Pomarleau, Louis	Burdett	1857	June 20, 1911
Potter, Thomas	Raymond	1866	June 20, 1911
Palmer, Henry A.	Calgary	1902	Aug. 22, 1911
Pradon, Jean M.	Strathcona	1921	Aug. 25, 1911
Peterson, Peter	Warner	1948	Sept. 9, 1911
Parro, Louis	Lacombe	1990	Nov. 11, 1911
Pratt, Fred	Lethbridge	2002	Nov. 17, 1911
Prought, Donald G.	Elm Park	2010	Dec. 12, 1911
Palar, Henry	Warner	2065	Mar. 13, 1912
Perdue, Nelson	Tofield	2103	Mar. 25, 1912
Pittman, John W.	Warner	2151	April 16, 1912
Pease, Fred	Milk River	2152	April 16, 1912
Pratt, Fred.	Camrose	2169	April 20, 1912
Porter, Charles B.	Medicine Hat	2183	April 23, 1912
Putnam, Philetus	Claresholm	2248	May 2, 1912
Patton, John P.	Blairmore	2268	May 18, 1912
Parkening, Amil	Tilley	2347	July 18, 1912
Pettley, Daniel R.	Taber	2626	Sept. 18, 1913
Pinckney, Fred.	Medicine Hat	2371	Sept. 17, 1912
Pentzer, Henry W.	Calgary	2374	Sept. 19, 1912
Porter, Joshua	Wetaskiwin	2417	Nov. 12, 1912
Pilgrim, Henry Howard ..	Edmonton	2431	Dec. 13, 1912
Palmer, Raymond N.	Calgary	2439	Dec. 18, 1912
Peterson, Peter	Edmonton	2767	May 20, 1914
Porter, John, Jr.	Edmonton	2495	Mar. 26, 1913
Peterson, Leroy	Cardston	2503	Mar. 31, 1913
Purington, Bert. S.	Bassano	2512	April 7, 1913
Polkinghorne, Wm.	Calgary	2912	May 6, 1915
Peabody, Harvey M.	Calgary	2535	April 21, 1913
Patterson, James B.	Calgary	2551	April 26, 1913
Pennock, Frank	Edmonton	2555	May 3, 1913
Prout, Arra T.	Neapolis	2563	May 12, 1913

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
Peterson, Elmer	Coleman	2588	June 19, 1913
Palmer, Charles G.	Magrath	2589	June 19, 1913
Pennicuick, Albert E.	Edmonton	2619	Aug. 21, 1913
Parks, Guy J.	Edmonton	2639	Oct. 22, 1913
Parker, Robert W.	Bickerdike	2665	Dec. 17, 1913
Penn, John S.	Hillcrest	2675	Jan. 12, 1914
Pozzi, Rinaldo	Frank	2705	Mar. 24, 1914
Phillips, William	Bankhead	2720	April 6, 1914
Peterson, Alfred H.	Camrose	2727	April 16, 1914
Padden, Thomas	Medicine Hat	2772	June 17, 1914
Poole, Arthur J.	Edmonton	2787	June 27, 1914
Parken, William H.	Calgary	2801	July 18, 1914
Pearson, Vernon	Lethbridge	2777	June 17, 1914
Parkin, Walter	Calgary	2825	Sept. 21, 1914
Prout, James Lorne	Medicine Hat	2870	Mar. 15, 1915
Pearson, William	Mitford	2880	Mar. 26, 1915
Peter, John F.	Edmonton	2883	April 5, 1915
Pon Wong	Edmonton	2937	Aug. 24, 1915
Pennycook, Wm. H.	Edmonton	2946	Oct. 13, 1915
Paddy, Wm. Henry	Calgary	2969	Dec. 16, 1915
Quigley, Thomas	Cochrane	546	Nov. 22, 1907
Quinn, Wm. B.	Edmonton	1188	Dec. 27, 1909
Quick, Elbert K.	Sundial	1237	Mar. 15, 1910
Quesseth, George O.	Meeting Creek	1425	July 6, 1910
Quinlan, John A.	Hillcrest	2082	Mar. 18, 1912
Quick, Nels	Whitla	2188	April 23, 1912
Quissy, Fred J.	Edmonton	2766	May 19, 1914
Robinson, John	Edmonton	*26	Oct. 9, 1899
Rutherford, John	Medicine Hat	1549	Oct. 17, 1910
Ross, Thomas G.	Poplar Lake	*97	Nov. 15, 1900
Rattray, Archie B.	Edmonton	*108	Dec. 15, 1900
Rafie, Andrew	Bon Accord	*301	Oct. 2, 1902
Ryan, James	Wetaskiwin	*316	Oct. 22, 1902
Redig, Valentine	Lacombe	*514	April 18, 1904
Rivet, Arthur	Morinville	*549	May 26, 1904
Ramsay, James	Coleman	620	Oct. 7, 1905
Rice, George A.	Strathcona	39	Sept. 18, 1905
Rath, Edw. L.	Conjuring Creek	93	April 11, 1906
Read, Edgar A.	Manfred	102	April 20, 1906
Reese, Harry E.	Wetaskiwin	137	May 10, 1906
Roulston, Robert	Bowden	160	May 31, 1906
Roberge, Wm.	Vegreville	215	Sept. 13, 1906
Rorem, T. A.	Duhamel	1760	April 18, 1911
Rockstad, Abraham	Wetaskiwin	247	May 15, 1907
Rath, Ernest W.	Conjuring Creek	277	May 15, 1907
Royle, Wm. H.	Calgary	347	June 4, 1907
Ramey, Morgan	Vegreville	382	June 14, 1907
Reay, John G.	Lamerton	391	June 14, 1907
Robinson, N. J.	DeWinton	425	June 19, 1907
Rydberg, Emil W.	Glenview	432	June 19, 1907
Richards, Wm.	Lundbreck	920	Mar. 30, 1909
Rice, Wm.	Andrew	500	Oct. 15, 1907
Rear, Charles W.	Mayton	645	April 14, 1908
Raymer, Oliver	Didsbury	653	April 15, 1908
Russell, Charles O.	Brockville	695	May 6, 1908
Ramsey, Ralph H.	Vegreville	722	May 18, 1908
Rix, Percy H.	Wetaskiwin	728	May 26, 1908

*Indicates Certificate was granted by North-West Territories.

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
Rattray, Alex.	Dog Pound	764	Sept. 11, 1908
Rude, John N.	Priddis	804	Sept. 22, 1908
Reid, James Robert	Claresholm	839	Oct. 2, 1908
Rigby, Wm. T.	Claresholm	840	Oct. 2, 1908
Rills, Wilson H.	Claresholm	841	Oct. 2, 1908
Richards, Neal S.	Aetna	857	Oct. 6, 1908
Rattray, Thos. A., Jr.	Edmonton	*550	May 26, 1904
Ritchie, John	Calgary	884	Mar. 19, 1909
Rothwell, John T.	Lethbridge	896	Mar. 24, 1909
Robinson, William	Edmonton	940	April 3, 1909
Russell, John	Gaetz Valley	947	April 6, 1909
Rice, Augustus M.	Carmangay	972	April 16, 1909
Riches, Charles B.	Edmonton	2928	Aug. 24, 1915
Redshaw, Arthur R.	Lethbridge	1055	May 3, 1909
Robinson, H. M.	Lethbridge	1059	May 4, 1909
Rundgren, John S.	Edmonton	1076	May 26, 1909
Robertson, Frank E.	Gleichen	1130	Sept. 21, 1909
Roy, Joseph R.	Stony Plain	1147	Sept. 25, 1909
Reimer, Henry H.	Neapolis	1200	Mar. 4, 1910
Romell, George H.	Stirling	1238	Mar. 15, 1910
Reilly, Thomas	Coal City	1239	Mar. 15, 1910
Richards, Peter W.	Lethbridge	1240	Mar. 15, 1910
Rice, Aaron R.	Claresholm	1279	Mar. 29, 1910
Ross, John P.	Granum	1282	Mar. 30, 1910
Reed, David	Rimbey	1294	April 1, 1910
Robertson, George H.	Hamilton	1397	April 25, 1910
Ritchie, Wm. O.	Strathcona	1444	July 14, 1910
Roberts, Edward Ivor	Strathcona	1445	July 14, 1910
Rhimes, Robert	Calgary	1458	Aug. 8, 1910
Roth, Charles	Strome	1461	Aug. 15, 1910
Robertson, Mark W.	Kitscoty	1462	Aug. 24, 1910
Robertson, James M.	Calgary	1527	Sept. 23, 1910
Reid, John E.	Eagle Butte	1535	Sept. 24, 1910
Robertson, Alex.	Calgary	1600	Jan. 13, 1911
Reed, Edwin L.	Passburg	1603	Jan. 14, 1911
Remington, Otto C.	Milk River	1690	Mar. 29, 1911
Restall, Fred.	Bassano	1746	April 10, 1911
Rolfson, Sam G.	Comrey	1789	April 24, 1911
Rorney, Andrew	Noble	1790	April 24, 1911
Rauds, Harry	Macleod	1791	April 24, 1911
Radway, Orlando S.	Radway Centre	1816	May 18, 1911
Rawson, George	Suffield	1836	May 26, 1911
Rolfe, Lyman	Bow Island	1867	June 20, 1911
Raw, Frank	Calgary	1883	July 19, 1911
Richfield, Floyd I.	Macleod	1917	Aug. 24, 1911
Rice, Martin	Grassy Lake	1949	Sept. 9, 1911
Radloff, Adolff	Edmonton	1965	Oct. 18, 1911
Richards, Thomas	Calgary	2042	Feb. 14, 1912
Ramsay, Wm. John	Lethbridge	2066	Mar. 13, 1912
Roland, George	Lille	2083	Mar. 18, 1912
Rich, George	Granum	2094	Mar. 22, 1912
Robertson, Mark W.	Cardiff	2105	Mar. 25, 1912
Ramsay, Robert	Strathcona	2116	April 1, 1912
Rasmussen, Arnold	Standard	2134	April 4, 1912
Reynolds, George P.	Ferintosh	2170	April 20, 1912
Roman, Ned	Thelma	2184	April 23, 1912
Reed, Guy	Irma	2200	April 24, 1912
Ross, Wm. Hope	Calgary	2970	Dec. 16, 1915
Roberts, John	Calgary	2212	April 26, 1912

*Indicates Certificate was granted by North-West Territories.

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—Continued.

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
Rowell, James	Calgary	2213	April 26, 1912
Rizzuto, Thomas	Edmonton	2221	April 29, 1912
Reedholm, Victor	Edmonton	2237	April 30, 1912
Ross, Robert McKay	Innisfail	2260	May 3, 1912
Robinson, Miles H.	Calgary	2281	May 22, 1912
Rutherford, Chas. E.	Bickerdike	2788	June 22, 1914
Roberts, David O.	Strathcona	2292	May 29, 1912
Rhodes, Edgar	Calgary	2302	June 11, 1912
Rich, Lewis R.	Brochet	2307	June 14, 1912
Ritchie, John R.	Athabasca Landing	2323	June 28, 1912
Robinson, Elwin D.	St. Albert	2397	Sept. 20, 1912
Rimmer, George	Calgary	2440	Dec. 18, 1912
Rhoads, George	Calgary	2479	Mar. 14, 1913
Rogers, James Ed.	Macleod	2489	Mar. 19, 1913
Rintoul, Alex.	Taber	2506	April 3, 1913
Robillard, Archie	Bassano	2536	April 21, 1913
Rogers, Clifford R.	Edmonton	2557	May 3, 1913
Richardson, Tom	Edmonton	2580	May 20, 1913
Ride, George Ed.	Cardston	2590	June 19, 1913
Riddell, William E.	Edmonton	2599	June 21, 1913
Rhoades, Fred N.	Pincher Creek	2634	Oct. 9, 1913
Richards, Alfred	Laggan	2668	Dec. 17, 1913
Robertson, James W.	Calgary	*862	June 15, 1905
Ross, Robert Mck.	Innisfail	2701	Mar. 12, 1914
Robertson, Donald	Medicine Hat	2737	April 23, 1914
Ross, Nolan N.	Edmonton	2894	April 10, 1915
Stadelbaur, Simon	Spruce Grove	*4	Sept. 18, 1899
Stewart, Thos. H.	Strathcona	*30	Oct. 9, 1899
Smith, Wm. F.	Athabasca Landing	*38	Nov. 28, 1899
Shaw, John Y.	Midnapore	*40	Dec. 1, 1899
Saunders, Elias T.	Lethbridge	*47	Mar. 23, 1900
Snider, John B.	Okotoks	*68	July 19, 1900
Steffes, Ferdinand	Morinville	*90	Nov. 15, 1900
Schlegel, Frank	Duhamel	*118	Jan. 26, 1901
Stewart, Archie	Edmonton	*161	Sept. 7, 1901
Stulz, Frank	St. Albert	*196	Dec. 18, 1901
Steffes, Jos.	Morinville	*91	Nov. 15, 1900
Simpson, Robert N.	Edmonton	*198	Dec. 18, 1901
Smith, Sam W.	Vegreville	*228	April 23, 1902
Still, Wm.	Leduc	*328	Dec. 18, 1902
Stewart, James A.	Beaver Lake	*329	Dec. 18, 1902
Shields, Wm. K.	Strathcona	*363	May 13, 1903
Smith, Larent E.	Ponoka	*387	July 13, 1904
Schatz, Robert	Strathcona	*635	Oct. 15, 1904
Swift, W. L.	Edmonton	*647	Oct. 15, 1904
Sloan, Wm. J.	Calgary	145	May 29, 1906
Swingle, Walter A.	Didsbury	*751	Mar. 24, 1905
Scott, George W.	Innisfail	*758	Mar. 24, 1905
Spannel, John	Leduc	*796	Mar. 27, 1905
Scott, Sam R.	Olds	*797	Mar. 28, 1905
Stafford, John	Sollman	*817	April 14, 1905
Short, Walker	Mewassin	*826	May 13, 1905
Schulli, Angelo	Lille	1453	Aug. 25, 1910
Skouson, Z. N.	Raymond	21	Sept. 16, 1905
Skouson, Peter N.	Raymond	25	Sept. 16, 1905
Sherwood, L. H.	Beaumont	29	Sept. 16, 1905
Swedfeger, Amos	Leduc	41	Sept. 18, 1905
Svarich, Peter	Kolomea	76	Mar. 26, 1906

*Indicates Certificate was granted by North-West Territories.

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
Suru, John	Edmonton	78	Mar. 26, 1906
Schroeder, Ed. H.	High River	120	April 30, 1906
Sherlin, Adam	Red Deer	128	Mar. 4, 1906
Smith, Charles W.	Foreman	131	May 10, 1906
Stephenson, James McC.	Innisfail	155	May 31, 1906
Speakman, Alfred	Penhold	159	May 31, 1906
Sanders T. Aaron	Cardston	166	Aug. 11, 1906
Stephens, James	Frank	175	Aug. 13, 1906
		2795	July 16, 1914
Stannk, Isadore	Frank	176	Aug. 13, 1906
Stillman, George F.	Spring Point	181	Aug. 13, 1906
Stuckney, Richard	Pincher Creek	185	Aug. 13, 1906
Scribner, Joseph	Leavings	190	Aug. 13, 1906
Smith, Joseph H.	Nanton	195	Aug. 13, 1906
Stevens, H. E.	Macleod	202	Aug. 13, 1906
Somerset, Robert N.	Vermilion	210	Sept. 13, 1906
Smith, John	Pakan	211	Sept. 13, 1906
Stevens, Harry L.	Olds	240	Sept. 27, 1906
Small, Jesse J.	Didsbury	243	Sept. 26, 1906
Scarth, Walter	Calgary	254	Dec. 1, 1906
Santroek, J. M.	Edmonton	269	April 29, 1907
Sorensen, Nels G.	Kellman	283	May 15, 1907
Smith, Charles A.	Red Deer	285	May 15, 1907
Smith, Sam T.	Leslieville	287	May 20, 1907
Schmidt, Henry W.	Red Deer	288	May 20, 1907
Salzl, Rudolph	Morinville	307	May 23, 1907
Swingle, Gala R.	Didsbury	310	May 29, 1907
Scott, William	Three Hills	321	May 29, 1907
Stagg, John C.	Calgary	805	Sept. 22, 1908
Stearns, Charles A.	Carstairs	356	June 4, 1907
Siddall, Wm. M.	Neapolis	360	June 4, 1907
Saunders, Abraham	Lacombe	372	June 7, 1907
Stevens, Clostin H.	Erskine	378	June 7, 1907
Swan, John	Wessington	379	June 7, 1907
Scoville, Wm. A.	Earling	413	June 14, 1907
Schattschneider, Herman ...	Ellerslie	415	June 14, 1907
Sinclair, Donald	Cayley	422	June 19, 1907
Sallendach, Robert	Brant	427	June 19, 1907
Sparrow, James W.	Lethbridge	440	June 20, 1907
Stuenkel, James F.	Claresholm	452	July 15, 1907
Svean, Ole	Claresholm	483	Aug. 13, 1907
Salmon, John F.	Raymond	458	July 15, 1907
Spencer, John H.	Medicine Hat	480	July 24, 1907
Somerset, Thomas B.	Edmonton	494	Oct. 15, 1907
Santroek, Harvey S.	Edmonton	498	Oct. 15, 1907
Skolitzky, John J.	Calgary	520	Oct. 24, 1907
Spreeman, Allen	Didsbury	522	Oct. 24, 1907
Skirkey, John W.	Lacombe	534	Oct. 28, 1907
Simmonds, Henry	Banff	547	Nov. 26, 1907
Stanworth, Stephen	Bankhead	549	Dec. 5, 1907
St. George, Stephen	Macleod	604	April 8, 1908
Schroeder, Waldemer	Macleod	607	April 8, 1908
Simpson, David A.	Macleod	622	April 9, 1908
Sorensen, Willard	Leavitt	629	April 9, 1908
Speight, Frank	Red Deer	637	April 14, 1908
Sawatzky, Bernard P.	Didsbury	650	April 15, 1908
Slater, Alfred	Medicine Hat	661	April 27, 1908
Saunders, Wallace	Conjuring Creek	674	April 27, 1908
Stearns, Harvey N.	Innisfree	679	April 27, 1908
Scoonover, Frank	Content	688	May 1, 1908
Story, Hillard M.	Talbot	692	May 6, 1908

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
Stinson, Fred	Hasting Coulee	706	May 18, 1908
Svarich, And.	Vegreville	723	May 18, 1908
Snyder, Jacob F.	Magrath	749	Aug. 26, 1908
Stephen, J. G.	Edmonton	780	Sept. 18, 1908
Shandro, Andrew S.	Shandro	822	Sept. 28, 1908
Stafford, Geo. F.	Pincher Creek	858	Oct. 6, 1908
Steinhauer, Augustine	Saddle Lake	866	Oct. 27, 1908
Smith, Anthony A.	Knee Hill	889	Mar. 20, 1909
Steeves, Lorne W.	Lethbridge	894	Mar. 24, 1909
Schwartz, Chas.	Lille	921	Mar. 30, 1909
Suitor, Wm.	Gladys	938	April 2, 1909
Stroud, W. D.	Crossfield	948	April 6, 1909
States, John G.	Carstairs	949	April 6, 1909
Smedstad, John	Claresholm	973	April 16, 1909
Schumers, Louis	Willing	992	April 20, 1909
Stern, Fred	Bawlf	1002	April 22, 1909
Stenberg, Fred	Harland	1003	April 22, 1909
Snyder, Chas. G.	Calgary	1028	April 28, 1909
Scott, Geo. T.	Gleichen	1029	April 28, 1909
Scarr, Jos. A.	Bankhead	1342	April 11, 1910
Sampert, Julius	Bruderheim	1042	April 29, 1909
Scott, Fred	Strathcona	2611	July 22, 1913
Schaumleffel, John	Lloydminster	1069	May 21, 1909
Stein, Philip	Lethbridge	1073	May 26, 1909
Stubbs, Albert W.	Medicine Hat	1082	June 18, 1909
Scarfe, Wm. H. T.	Innisfail	1090	Aug. 24, 1909
Sheppard, Frank H.	Wetaskiwin	1096	Sept. 7, 1909
Samis, Chas.	Calgary	1132	Sept. 21, 1909
Schench, Wm. A.	Thigh Hill	1133	Sept. 21, 1909
Simon, Herbert	Nanton	1134	Sept. 21, 1909
Sommersgill, Robt.	Calgary	1135	Sept. 21, 1909
Spencer, Fred	Cardston	1141	Sept. 24, 1909
Smith, John	Kitscoty	1148	Sept. 25, 1909
St. John, Myron	Edmonton	1166	Sept. 29, 1909
Sinclair, Clarence	Coaldale	1242	Mar. 15, 1910
Smith, Leslie E.	Lethbridge	1243	Mar. 15, 1910
Schinnour, Gustav	Grassy Lake	1244	Mar. 15, 1910
Stuckney, Wilfred F.	Pincher Creek	1262	Mar. 21, 1910
Sheffield, Geo.	Macleod	1269	Mar. 28, 1910
Story, Nelson	Lacombe	1295	April 1, 1910
Snyder, Perry	Pakan	1311	April 6, 1910
Symon, Lindsay	Edmonton	1811	May 16, 1911
Sayville, Walter G.	Calgary	1341	April 11, 1910
Steven, Robt. T.	Strathcona	1350	April 13, 1910
Sparks, Geo. A.	Edmonton	2926	July 13, 1915
Smith, Oscar H.	Lethbridge	1364	April 14, 1910
Stone, Wm. N.	Langdon	1380	April 21, 1910
Spencer, Geo.	Calgary	1402	April 28, 1910
Sagmoen, Peter E.	Chauvin	1406	May 17, 1910
Sliver, John A.	Lethbridge	1413	May 21, 1910
Stallworthy, Wm.	Calgary	1430	June 14, 1910
Savage, Wm. John	Cardston	1438	July 8, 1910
Smith, Henry	Calgary	1456	Aug. 4, 1910
Selwood, Wm. H.	Welsdale	1463	Aug. 24, 1910
Scott, Michael D.	Cayley	1489	Sept. 6, 1910
Sand, Oscar L.	Dina	1505	Sept. 21, 1910
Stewart, Wm. A.	Gilpin	1506	Sept. 21, 1910
Spencer, Thomas E.	Wetaskiwin	1545	Oct. 7, 1910
Shantz, Alson S.	Didsbury	1554	Oct. 17, 1910
Stobbs, Henry	Medicine Hat	1571	Oct. 20, 1910
Smith, John K.	Calgary	1576	Oct. 20, 1910

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
Smeltzer, Geo. E.	Taber	2160	April 19, 1912
Steeves, Robert	Cleversville	1540	Oct. 3, 1910
Steeves, Robert	Cleversville	1841	May 26, 1911
Snyder, Amasa	Edmonton	1607	Jan. 23, 1911
St. Peter, Moses	Macleod	1639	Mar. 15, 1911
Snyder, Clarence E.	Pincher Creek	1640	Mar. 15, 1911
Stilling, Samuel K.	Three Hills	1658	Mar. 20, 1911
Stilling, Samuel K.	Three Hills	2682	June 13, 1914
Sergeant, Ed. D.	Calgary	1659	Mar. 20, 1911
Saunders, Charles O.	Okotoks	1660	Mar. 20, 1911
Stanley, Sans E.	Calgary	1661	Mar. 20, 1911
Sheardown, Henry	Lorraine	1676	Mar. 24, 1911
Solie, Halbert L.	Warner	1691	Mar. 29, 1911
Sweet, Charles	Grassy Lake	1707	Mar. 31, 1911
Smyrick, Jos.	Grassy Lake	1708	Mar. 31, 1911
Stephens, S. E.	Ponoka	2501	Mar. 28, 1913
Skallin, Olof	Pretty Hill	1724	April 5, 1911
Shernak, Charles J.	Camrose	1725	April 5, 1911
Scott, John S.	Bashaw	1726	April 5, 1911
Scott, John S.	Bashaw	2899	April 16, 1915
Seward, Gale	Strome	1727	April 5, 1911
Shields, David W.	Carlstadt	1747	April 10, 1911
Schroeder, Alex	Beaver Hills	1773	April 21, 1911
Smith, Thomas M.	Edmonton	1774	April 21, 1911
Smith, J. Edgar	Noble	1792	April 24, 1911
Schrieber, John	Taber	1793	April 24, 1911
Stephens, Samuel	Carmanay	1799	April 26, 1911
Stewart, Joseph	Irricana	1808	May 6, 1911
Soetje, Henry	Chinook	1824	May 20, 1911
Smith, Albert A.	Magrath	1839	May 26, 1911
Spangrud, Emil	Pincher Creek	1840	May 26, 1911
Stackhouse, Wm. C.	Edmonton	1869	June 26, 1911
Sebern, Horace E.	Edmonton	1872	July 12, 1911
Smeaton, Andrew	Calgary	1903	Aug. 22, 1911
Sorenson, Charles	Lethbridge	1918	Aug. 24, 1911
St. Peter, J. F.	Diamond City	2361	Aug. 14, 1912
Stevens, George N.	Calgary	1939	Sept. 8, 1911
Skelton, Fred A.	Wheat Centre	1950	Sept. 9, 1911
Stevinski, Alex.	Mundare	1956	Sept. 9, 1911
Spallin, Joseph	Fort Saskatchewan ..	1957	Sept. 9, 1911
Selwood, Wm. H.	Clover Bar	1966	Oct. 18, 1911
Shields, James R.	Edmonton	1987	Nov. 10, 1911
Smith, Samuel George	Huxley	2003	Nov. 25, 1911
Smith, John	Edmonton	2022	Dec. 31, 1911
Sommers, Delbert	Lawrence	1241	Mar. 15, 1910
Sommers, Delbert	Lawrence	2153	April 16, 1912
Shidler, Elmer H.	Cardston	1319	April 7, 1910
Shidler, Elmer H.	Cardston	2033	Feb. 14, 1912
Schrieber, Wm.	Eyremore	1709	Mar. 31, 1911
Schrieber, Wm.	Eyremore	2159	April 19, 1912
Stoner, Orville W.	Strathcona	1922	Aug. 25, 1912
Stoner, Orville W.	Strathcona	2106	Mar. 25, 1912
Scott, Wilbert W.	Summerview	2084	Mar. 18, 1912
Scott, Frank	Gleichen	2132	April 4, 1912
Sears, Thomas	Dalroy	2133	April 4, 1912
Spoucler, W. J.	Reid Hill	2154	April 16, 1912
Sand, Elmer M.	Edburg	2171	April 20, 1912
Strong, Ross D.	Burdett	2185	April 23, 1912
Scully, Daniel	Seven Persons	2186	April 23, 1912
Sillib, Walter	Whitla	2187	April 23, 1912

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.**

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
Sinclair, E. R.	Medicine Hat	2189	April 23, 1912
Stuart, James E.	Edmonton	2227	April 29, 1912
Stuart, James E.	Edmonton	2390	Sept. 27, 1912
Smart, Charles C.	Crossfield	2240	May 1, 1912
Strang, Andrew R.	Carbon	2241	May 1, 1912
Stuart, Wm. G.	Coaldale	2245	May 2, 1912
Stewart, Andrew	Calgary	2282	May 22, 1912
Skark, Jans	Calgary	2283	May 22, 1912
Smith, John Wesley	Calgary	2303	June 11, 1912
Sherwood, Ralph O.	St. Albert	2319	June 17, 1912
Shafer, Melvan J.	Edmonton	2335	July 16, 1912
Spencer, James	Calgary	2373	Sept. 19, 1912
Silver, William	St. Albert	2380	Sept. 20, 1912
Stingle, Albert W.	Edmonton	2558	May 3, 1913
Stone, William	Edmonton	2395	Oct. 7, 1912
Scanlin, Edward	Bassano	2403	Oct. 19, 1912
Smiley, Levy	Calgary	1852	June 13, 1911
Smiley, Levy	Calgary	2537	April 21, 1913
Stevenson, Ivy W.	Calgary	2538	April 21, 1913
Schultz, John	Lethbridge	2455	Jan. 15, 1913
Sanders, Thomas O.	Bassano	2468	Feb. 13, 1913
Schultz, Emil	Bruderheim	2496	Mar. 26, 1913
Scobie, John H.	Lethbridge	2545	April 23, 1913
Singleton, Thomas F.	Edmonton	2556	May 3, 1913
Stepina, Joseph	Edmonton	2564	May 14, 1913
Steele, Charles Wm.	Calgary	2574	May 19, 1913
Stephens, John	Calgary	2585	June 18, 1913
Sterne, Alf.	Calgary	2586	June 18, 1913
Small, Lorne	Maleb	2591	June 19, 1913
Stevens, Fred. V.	Edmonton	2600	June 18, 1913
Sweet, William A.	Calgary	2631	Sept. 20, 1913
Stewart, Albert A.	Flowerdale	2636	Oct. 13, 1913
Scott, William R.	Edmonton	2646	Nov. 11, 1913
Steele, Thomas	Coalhurst	2659	Dec. 16, 1913
Shea, Pat J.	Edmonton	2666	Dec. 17, 1913
Strand, Frank E.	Edmonton	2690	Feb. 16, 1914
Stockett, Thomas R.	Hosmer	2698	Feb. 19, 1914
Sargent, George	Calgary	2734	April 21, 1914
Stuckey, Samuel	Edmonton	2789	June 22, 1914
Stinis, Dirk P.	Spirit River	2803	Aug. 5, 1914
Stafford, Charles G.	Lethbridge	2831	Oct. 17, 1914
Sawezuk, Gregor	Mundare	2667	Dec. 17, 1913
Shelton, Henry	Edmonton	2678	Jan. 12, 1914
Shultz, John D.	Calgary	2971	Dec. 16, 1915
Shackleton, Sam	Calgary	2881	Mar. 26, 1915
Shephard, Percy Wm.	Fort Saskatchewan ..	2904	April 20, 1915
Stockwell, Homer K.	Condor	2965	Dec. 11, 1915
Trible, H. W.	Red Deer	2820	Aug. 29, 1914
Townsend, R. C.	Canmore	*314	Oct. 20, 1902
Turner, Leonard J.	Gleichen	469	Nov. 6, 1903
Terry, Peter	Okotoks	*470	Nov. 6, 1903
Turnbull, Robert	Strathcona	*519	April 8, 1904
Trussler, A. E.	Highland Park	*612	Sept. 27, 1904
Tennison, John C.	Leduc	*722	Mar. 3, 1905
Tribel, Clarence A.	Red Deer	*782	Mar. 24, 1905
Tillapaugh, John	Warwick	48	Sept. 23, 1905
Tanner, Wm. Jos.	Raymond	15	Sept. 16, 1905
Thomas, A. I.	Frank	890	Mar. 24, 1909

*Indicates Certificate was granted by North-West Territories.

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
Treasure, Sam	Claresholm	58	Dec. 19, 1905
Trembly, Miles I.	Edmonton	73	Mar. 26, 1906
Taylor, David A.	Red Deer	162	July 7, 1903
Tufts, Josiah	Taber	187	Aug. 13, 1906
Turner, Ernest H.	Warwick	214	Sept. 13, 1906
Towers, Fred J.	Red Deer	299	May 20, 1907
Traub, Wm.	Didsbury	325	May 29, 1907
Telford, Ernest E.	Vermilion	330	May 31, 1907
Tennant, Wm. J.	Calgary	350	June 4, 1907
Thompson, George A.	Red Willow	374	June 7, 1907
Tiede, August	Stettler	375	June 7, 1907
Trussler, A. D.	Strathcona	416	June 14, 1907
Thrum, Charles W.	High River	433	June 19, 1907
Turner, George H.	Taber	445	July 15, 1907
Tucker, Glines	Stavely	1843	May 29, 1911
Tollestrup, Christian F.	Raymond	472	July 15, 1907
Thwaytes, Lancelot	Edmonton	497	Oct. 15, 1907
Tewsley, James S.	Carstairs	525	Oct. 24, 1907
Thompson, Thos. G.	Edmonton	589	April 2, 1908
Turnbull, W. N.	Penhold	634	April 14, 1908
Taylor, Orrin O.	Harmattan	647	April 14, 1908
Tidball, Wm. E.	Carstairs	651	April 15, 1908
Taylor, Wm. L.	Killam	2612	Aug. 2, 1913
Thronsdon, Theo.	Camrose	714	May 18, 1908
Teardiff, Joseph E.	Fort Vermilion	743	Aug. 6, 1908
Toews, Cornelius F.	Stern	765	Sept. 17, 1908
Tronnes, Peter	Dorelee	808	Sept. 25, 1908
Todd, Walker	Macleod	1270	Mar. 28, 1910
Taylor, Wm. J.	Lochinvar	976	April 17, 1909
Trono, Louis	Canmore	1032	April 28, 1909
Tronto, Emile	Canmore	1033	April 28, 1909
Townsend, Lean E.	Stirling	1085	July 16, 1909
Thomas William H.	Lloydminster	1167	Sept. 29, 1909
Tillapaugh, John F.	Vegreville	1169	Sept. 29, 1909
Tanner, James	Macleod	1272	Mar. 28, 1910
Taylor, Henry G.	Ponoka	1296	April 1, 1910
Toward, James B.	Bankhead	2575	May 19, 1913
Thomas, Emery R.	Carlstadt	1398	April 25, 1910
Tessier, George A.	Ena	1431	June 14, 1910
Toppin, Samuel S.	Calgary	1459	Aug. 15, 1910
Tupper, Roy O.	Kipp	1483	Sept. 1, 1910
Turner, Philip R.	Fort Saskatchewan ..	1518	Sept. 21, 1910
Thomas, Wm.	Bassano	2004	Nov. 29, 1911
Todd, Robert	Strathcona	2117	April 1, 1912
Tharp, Clancey L.	Taber	1572	Oct. 20, 1910
Tomfohr, George	Milk River	1587	Nov. 17, 1910
Thompson, Henry	Castor	1677	Mar. 24, 1911
Tennis, Lloyd	Homeglen	1678	Mar. 24, 1911
Taylor, John W.	Lethbridge	1692	Mar. 29, 1911
Thoreson, Thomas L.	Holden	1700	Mar. 31, 1911
Tingley, Alex. B.	Blackfoot	1701	Mar. 31, 1911
Turnell, Reese W.	Three Hills	1728	April 5, 1911
Towler, John W.	Sedgewick	1729	April 5, 1911
Taylor, Frank S.	Carlstadt	1748	April 10, 1911
Thillet, Claud	Calgary	1823	May 20, 1911
Thielen, Joseph	Milk River	1838	May 26, 1911
Toews, Peter L.	Stern	1904	Aug. 22, 1912
Tollestrup, Rudolph W.	Raymond	2420	Nov. 13, 1912
Trail, Herbert	Calgary	1996	Nov. 16, 1911
Thompson, Gordon B.	Strathcona	2011	Dec. 11, 1911

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
Thompson, Charles	Red Deer	297	May 20, 1907
Thompson, Charles	Red Deer	2337	July 17, 1912
Thompson, James	Innisfail	2034	Feb. 14, 1912
Thompson, Frank L.	Macleod	1271	Mar. 28, 1910
Thompson, Frank L.	Macleod	2085	Mar. 18, 1912
Thompson, Robson	Calgary	2027	Jan. 16, 1912
Thompson, Robson	Calgary	2818	Aug. 22, 1914
Teighton, Roy F.	Wetaskiwin	2050	Feb. 23, 1912
Topper, George	Nanton	2113	Mar. 28, 1912
Taylor, Roy	Dolcy	2146	April 10, 1912
Tubbs, Allie	Taber	2161	April 19, 1912
Thomas, Alfred Ernest ..	Edmonton	2812	Aug. 17, 1914
Taylor, Stead	Strathcona	2321	June 17, 1912
Thorp, Fred. Wm.	Calgary	2415	Nov. 12, 1912
Todd, Fred. C.	Edmonton S.	2497	Mar. 26, 1913
Towle, Ray M.	Redcliff	2523	April 15, 1913
Tully, James A.	Calgary	2539	April 21, 1913
Tilly, James A.	Calgary	2540	April 21, 1913
Thomson, Alex.	Edmonton	2581	May 20, 1913
Tully, Fred A.	Medicine Hat	2592	June 19, 1913
Thoman, George A.	Camrose	2728	April 16, 1914
Turner, William T.	Mountain Park	2741	April 27, 1914
Tuininga, Klass	Edmonton	2963	Dec. 10, 1915
Utter, Frank C.	Whitecourt	2051	Feb. 29, 1912
Utas, Peter	Wetaskiwin	*331	Feb. 13, 1903
Umbach, William	Spruce Grove	*357	May 13, 1903
Umbach, John H.	Spruce Grove	67	Mar. 16, 1906
Urback, Alfred F.	Calgary	258	Jan. 22, 1907
Umbach, Edgar A.	Spruce Grove	656	April 22, 1908
Underwood, Harry A.	Emsbury	689	May 1, 1908
Ullman, Albert	Granum	842	Oct. 2, 1908
Ursin, Bjorne	Kananaskis	2615	Aug. 11, 1913
Unger, Joseph	Edmonton	2691	Feb. 16, 1914
Vogel, Wilhelm	Strathcona	*22	Oct. 9, 1899
VanMeter, Chas. E.	Millet	*212	Dec. 18, 1901
Vanacker, Louis	S. Albert	*373	May 13, 1903
Vig, Oscar O.	Bentley	763	Mar. 24, 1905
Veeder, Robert B.	Wetaskiwin	*791	Mar. 27, 1905
VanSellick, Jacob	Edmonton	32	Sept. 16, 1905
Van Wegan, Louis	Raymond	42	Sept. 18, 1905
Vogel, Ferdinand	Strathcona	2293	May 29, 1912
Vig, Casper O.	Bentley	110	April 25, 1906
Vaughn, Frank	Calgary	336	June 14, 1907
VanWinkle, Howard	High River	2855	Dec. 17, 1914
VanWinkle, Chester A.	High River	439	June 19, 1907
Venables, Wm.	Medicine Hat	482	Aug. 1, 1907
Veith, F. Wm.	Inga	490	Oct. 15, 1907
Vesseur, Moses	Sylvan Lake	1194	Feb. 21, 1910
Vlasak, Rudolph	Wessington	539	Oct. 28, 1907
Vandburgh, James N.	Calgary	587	Mar. 23, 1907
Vanyle, Charles	Edmonton	597	April 2, 1908
Vanderford, Sylvester A.	Stettler	1297	April 1, 1910
Vint, Francis	Stettler	1298	April 1, 1910
Varembo, Olaf H.	Camrose	1546	Oct. 7, 1910
VanMeter, Jacob A.	Millet	823	Sept. 29, 1908
Valentine, Marcon F.	Bellevue	924	Mar. 30, 1909
Vaughn, Clifford E.	Wetaskiwin	1097	Sept. 7, 1909

*Indicates Certificate was granted by North-West Territories.

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.— *Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
VanKluck, Alerie	Reid Hill	1136	Sept. 21, 1909
Von Wald, Ernest C.	Stavely	1952	Sept. 9, 1911
Varty, Herbert H.	La Pearl	2147	April 10, 1912
Van Deer Doorn, Ant. E.	Medicine Hat	2190	April 23, 1912
Van Der Velde, M.	Langdon	2214	April 26, 1912
Vogel, Andrew J.	Edmonton	2449	Jan. 13, 1913
Van Nest, Andrew C.	Medicine Hat	2603	July 10, 1913
Vanderpool, Joseph W.	Calgary	2043	Feb. 14, 1912
Witmer, Abram	Strathcona	*29	Oct. 9, 1899
Wilson, James	Calgary	65	July 19, 1900
Wulff, Nick	Edmonton	1084	July 13, 1909
Walker, Robert	Edmonton	*251	Aug. 18, 1902
Weder Frank	Beaver Hills	*462	Oct. 28, 1903
Wells, Charles	Rosenroll	*517	April 18, 1904
Wardrop, John L.	East Clover Bar.	*640	Oct. 15, 1904
Will, Louis	Bankhead	*682	Jan. 31, 1905
Wilkinson, Richard	Olds	*754	Mar. 24, 1905
Whitcotton, Robert M.	Lacombe	164	July 14, 1906
Wilson, Wm. Jos.	Coleman	9	Sept. 16, 1905
Wallace, W. J.	Macleod	12	Sept. 16, 1905
Wood, Wm. F.	Tofield	44	Sept. 18, 1905
Whalen, James	Edmonton	69	Mar. 1, 1906
Wetterberg, Theo.	Canmore	100	April 20, 1906
Watts, Sam	Lacombe	103	April 24, 1906
Werner, Wm. Fred.	Red Deer	108	April 24, 1906
Waymark, Richard T.	Calgary	123	April 30, 1906
Whitaker, Wm.	Edmonton	129	May 4, 1906
Wisler, Oliver P.	Stettler	136	May 10, 1906
Webber, Alfred	Medicine Hat	2191	April 23, 1912
Wright, Bruce M.	Calgary	205	July 30, 1906
Watters, Wm. E.	Strathcona	227	Sept. 20, 1906
Wynn, Robert	Kneehill Valley	291	May 20, 1907
Wood, Rex. R.	Carstairs	309	May 29, 1907
Wacker, Grover	Rawdonville	322	May 29, 1907
Webster, Robert J.	Marwayne	390	June 14, 1907
Walkermeier, Wm.	Heatherbrae	396	June 14, 1907
Wilcox, Isaac A.	High River	423	June 19, 1907
Wilson, Archibald	Brant	1465	Aug. 29, 1910
Wilderman, Raymond A.	High River	437	June 19, 1907
Walters, Wm.	Claresholm	864	Oct. 24, 1907
Wilcocks, Wm.	Lethbridge	475	July 15, 1908
Watson, Walter J.	Claresholm	578	Mar. 23, 1908
White, Jack	Calgary	585	Mar. 23, 1908
Wright, Meritt B.	Edmonton	593	April 2, 1908
White, George T.	Red Deer	639	April 14, 1908
Williams, Frank T.	Crossfield	682	May 1, 1908
Winkleman, Jules	Leduc	711	May 18, 1908
Wilbert, Charles	Wetaskiwin	721	May 28, 1908
Walker, Preston	Lacombe	772	Sept. 14, 1908
Watson, P.	Edmonton	781	Sept. 18, 1908
Wentworth, Wm.	Okotoks	806	Sept. 22, 1908
Wilson, Bert. M.	Nanton	843	Oct. 2, 1908
Wright, Leroy H.	Cardston	859	Oct. 6, 1908
Wilson, Charles O.	Spring Coulee	863	Oct. 21, 1908
Wallwork, James	Taber	903	Mar. 24, 1909
Webster, Alex	Pincher Creek	933	April 1, 1909
Weber, Noah R.	Carstairs	950	April 6, 1909
Watts, George	Macleod	957	April 9, 1909

*Indicates Certificate was granted by North-West Territories.

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
Wilson, Andrew W.	Vegreville	985	April 20, 1909
Walker, Edgar N.	Mundare	986	April 20, 1909
Wilson, Jos. W.	Edmonton	987	April 20, 1909
Wyman, Clark I.	Magrath	1007	April 25, 1909
Walker, Charles H.	Warner	1008	April 25, 1909
Williams, Edgar H.	Bankhead	1034	April 28, 1909
Woodcock, Frank F.	Medicine Hat	2827	Sept. 29 1914
Wiltzen, Martin	Chipman	1043	April 29, 1909
White, Edward	Lethbridge	1056	May 3, 1909
Weisser, Christian B.	Camrose	1094	Sept. 7, 1909
West, Wm. A.	Mewassin	1099	Sept. 13, 1909
White, Thos. J.	Stirling	1108	Sept. 15, 1909
Wick, Anton	Lineham	1137	Sept. 21, 1909
Wilson, Aura L.	Carstairs	1138	Sept. 21, 1909
Wood, Roy J.	Carstairs	1139	Sept. 21, 1909
Wolanskey, John	Edmonton	1149	Sept. 25, 1909
Wonnop, Jos. L.	Lawrence	1156	Sept. 28, 1909
Watt, George	Strathcona	1184	Dec. 4, 1909
White, Chris., Jr.	Red Deer	1201	Mar. 3, 1910
Williams, Albert	Magrath	1245	Mar. 15, 1910
Wilson, Clifford	Camrose	1299	April 1, 1910
Watson, Robert	Edgerton	1352	April 13, 1910
Wilson, Rufus B.	Tofield	1354	April 13, 1910
Wilson, Rufus B.	Tofield	1353	April 13, 1910
Woods, Henry	Warner	1365	April 14, 1910
White, Jas. Albert	Lethbridge	1366	April 14, 1910
Wilson, Robert	Medicine Hat	1399	April 25, 1910
Whitehead, Martin	Banff	1432	June 14, 1910
Woods, Harry	Lethbridge	1439	July 8, 1910
White, John W.	Brooks	1452	July 15, 1910
Walker, John A.	Warren	1490	Sept. 7, 1910
Wagner, A. C. L.	Calgary	1529	Sept. 23, 1910
Wilson, John L.	Bassano	1530	Sept. 23, 1910
Wilson, Wm. John	Angus Ridge	1547	Oct. 7, 1910
Wocknitz, Paul	Magrath	1573	Oct. 20, 1910
Wessenger, Ray	Medicine Hat	1574	Oct. 20, 1910
Wessenger, Ray	Medicine Hat	1749	April 12, 1911
Wolfe, John W.	Edmonton	1588	Nov. 21, 1910
Williams, Chas. A.	Calgary	1595	Dec. 15, 1910
Williams, Alfred L.	Calgary	1596	Dec. 15, 1910
Watson, Wilfrid G.	Calgary	1663	Mar. 20, 1911
Wallace, Richard R.	Lloydminster	1669	Mar. 22, 1911
White, Wm. R.	Castor	2089	Mar. 21, 1912
Wight, H. E.	Cardston	1683	Mar. 28, 1911
Wight, H. E.	Cardston	2504	Mar. 31, 1913
Wright, Oscar H.	Warner	1693	Mar. 29, 1911
Wagar, Elmore C.	Bow Island	1710	Mar. 31, 1911
Wagar, George	Bow Island	1711	Mar. 31, 1911
Wilson, Charles B.	Olds	1730	April 5, 1911
Wood, Thomas W. G.	Lethbridge	2608	July 18, 1913
Weeks, George S.	Seven Persons	1795	April 24, 1911
Woods, George	New Dayton	1842	April 26, 1911
Woodrow, Duncan	Edmonton	1847	June 9, 1911
Wilbraham, George	Edmonton	1873	July 12, 1911
Williams, Thomas	Grande Prairie	1882	July 19, 1911
Wilson, Ernest	Langdon	1885	July 19, 1911
Walker, Jas. H.	Gleichen	1905	Aug. 22, 1911
Wonsor, Louis A.	Calgary	1940	Sept. 8, 1911
Wagar, Arnold	Millet	1958	Sept. 9, 1911
Wilson, Oscar L.	High River	1971	Oct. 20, 1911

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
Welsh, John	Vermilion	2012	Dec. 12, 1911
Williams, Ross D.	Winnifred	2017	Dec. 19, 1911
Wertz, Ran W.	Lethbridge	2018	Dec. 19, 1911
Whalls, George	Calgary	2020	Dec. 23, 1911
Wharron, Frank T.	Calgary	1213	April 7, 1910
Wharron, Frank T.	Calgary	2162	April 19, 1912
Williams, Wm. D.	Vermilion	1508	Sept. 21, 1910
Williams, Wm. D.	Vermilion	2232	April 29, 1912
Wallace, F. M.	Lethbridge	1878	July 13, 1911
Wallace, F. M.	Lethbridge	2067	Mar. 13, 1912
Wilson, Stephen E.	Calgary	2044	Feb. 14, 1912
Wark, Fred. D.	Gladys	2114	Mar. 28, 1912
Whitehouse, Jas. E.	Strathmore	2135	April 4, 1912
Willits, John T.	Clover Bar	2219	April 29, 1912
Weber, Edwin	Didsbury	2261	May 3, 1912
Wesenberg, William	Ghost Pine Creek ..	2262	May 3, 1912
Wheatley, Edward A.	Leslieville	2265	May 15, 1912
Williams, John	Lille	2269	May 18, 1912
Watson, Isaac M.	Lethbridge	2270	May 18, 1912
Winters, Arthur J.	Bassano	2284	May 22, 1912
Wimer, William	Ferintosh	2295	May 29, 1912
Wilcox, Edward	Camrose	2508	April 4, 1913
Wilson, Aaron	Calgary	2304	June 11, 1912
Walker, Alex.	Calgary	2322	June 21, 1912
White, William L.	Edmonton	2336	July 16, 1912
Ward, William	Calgary	2349	July 18, 1912
Walker, John F.	Bassano	2583	May 21, 1913
Wright, Frank G.	Staffordville	2356	July 19, 1912
Ward, Walter George	Lethbridge	2814	Aug. 18, 1914
Wismer, Henry F.	Nanton	2402	Oct. 19, 1912
Wyatt, Sidney	Calgary	2407	Oct. 19, 1912
Wright, Joseph	Calgary	2408	Oct. 19, 1912
Wooley, Norman	Medicine Hat	1400	Dec. 25, 1910
Wooley, Norman	Medicine Hat	2524	April 15, 1913
Wilson, William	Hardieville	2456	Jan. 15, 1913
Williams, Fred. Jas.	Medicine Hat	2457	Jan. 15, 1913
Wells, Edwin N.	Bassano	2481	Mar. 14, 1913
Wallis, Harold W.	Calgary	2541	April 21, 1913
Williams, Thomas	Lethbridge	2569	May 15, 1913
Wilson, Robert B.	Edmonton	2621	Aug. 21, 1913
Wilson, Alex.	Edmonton	2648	Nov. 11, 1913
Whitfield, Arthur	Lethbridge	2660	Dec. 16, 1913
Walker, Earl A.	Calgary	2670	Dec. 17, 1913
Williams, Richard	Edmonton	2769	June 11, 1914
Weir, William J.	Medicine Hat	2773	June 17, 1914
Wieting, Henry	Buford	2794	July 16, 1914
Weatherhead, Orrel S.	Edmonton	2813	Aug. 17, 1914
Whyte, Wm. R.	Calgary	2453	Jan. 15, 1913
Whyte, Wm. R.	Calgary	2972	Dec. 16, 1915
Waldenberg, Wm.	Mitford	2862	Jan. 11, 1915
Waklem, Thomas	Coleman	2875	Mar. 23, 1915
Wiebe, John	Vermilion	2895	April 10, 1915
Wellington, Wm. John	Edmonton	2924	June 15, 1915
Williams, David	Calgary	2930	July 14, 1915
Young, Arthur	Banff	*491	Mar. 14, 1904
Young, D. M.	Lethbridge	4	Sept. 16, 1905
Yeamans, Charles A.	Edmonton	2294	May 29, 1912
Young, John T.	Stavelly	465	July 15, 1907

*Indicates Certificate was granted by North-West Territories.

Schedule of Holders of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued.			
Young, Alva L.	Markerville	643	April 14, 1908
Young, David	Strathcona	2623	Aug. 25, 1913
Young, Peter	Calgary	959	April 9, 1909
Young, James	Edmonton	1355	April 13, 1910
Young, James	Gleichen	1531	Sept. 23, 1910
Yeomans, George M.	Brockett	1634	Mar. 15, 1911
Yeomans, George M.	Brockett	2628	Sept. 18, 1913
Zimmerman, Arthur C.	Bawlf	1548	Oct. 7, 1910
Zuehlke, F. C.	Urquhart	*188	Dec. 18, 1901
Zimmerman, Otto	Red Lodge	*756	Mar. 24, 1905
Zachowski, John	Edison	1150	Sept. 25, 1909
Zille, Frank	Lille	2629	Sept. 18, 1913
Zorves, Andrew J.	Blairmore	2088	Mar. 18, 1912
Zavity, Bryant	Edmonton	2464	Feb. 12, 1913

TRACTION ENGINEERS' Final Certificates.

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Arrison, Norman W.	Gleichen	73	Aug. 16, 1912
Andrews, John	Stewartwyn	1	May 13, 1912
Adler, Lee	Stirling	32	June 14, 1912
Arndt, Paul	Whitla	83	Sept. 17, 1912
Atkinson, Henry	Medicine Hat	84	Sept. 17, 1912
Archambio, Fred	Rosemead	286	June 9, 1913
Alm, Enoch Wm.	Bittern Lake	173	Mar. 28, 1913
Auburg, Beri.	Carlstadt	214	April 7, 1913
Arnew, Thos. A.	Sundre	224	April 11, 1913
Armstrong, John	Stavely	250	April 23, 1913
Abet, John H.	Lloydminster	255	April 26, 1913
Affseth, Christian	Holden	305	June 27, 1913
Allen, Wallace	Killam	375	Sept. 25, 1913
Adshead, Cecil H.	Calgary	396	Nov. 8, 1913
Ayers, Thomas C.	Edmonton	432	April 2, 1914
Algot, Gustaf J.	Angle Lake	478	April 17, 1914
Anderson, Conrad G.	Lawton	511	April 29, 1914
Armstrong, Norman B.	Ryley	535	June 22, 1914
Allan, Malcolm M.	Bottrel	567	Sept. 21, 1914
Anderson, Nels	Calmar	595	Oct. 19, 1914
Atkinson, Wm. E.	Claresholm	754	Sept. 10, 1915
Arbuser, John	Stony Plain	709	May 29, 1915
Anderson, Otto Emil	Camrose	656	April 16, 1915
Armstrong, John K.	Fort Saskatchewan ..	696	April 27, 1915
Armstrong, Albert B.	Edmonton	697	April 27, 1915
Anderson, Roy L.	Magrath	723	July 15, 1915
Ausman, Julius L.	Spring Coulee	724	July 15, 1915
Anderson, Elias A.	Yetwood	735	Aug. 20, 1915
Ambler, Edwin	Irma	739	Aug. 24, 1915
Anderson, Wm.	Edmonton	740	Aug. 24, 1915
Allen, George N.	Edmonton	772	Sept. 20, 1915
Adams, James Henry	Sibbald	786	Sept. 28, 1915

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TRACTION ENGINEERS' Final Certificates.---Continued.

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Blanchard, Arthur L.	Olds	56	July 30, 1912
Benning, Alonso	Lethbridge	26	June 5, 1912
Bassett, Charles C.	Cora Lynn	27	June 10, 1912
Burger, Samuel M.	Bentley	28	June 10, 1912
Bobier, Louis	Coaldale	65	Aug. 14, 1912
Brown, Frank	Spring Coulee	85	Sept. 17, 1912
Buchanan, Robert James ..	Welling	86	Sept. 17, 1912
Boyce, Samuel L.	Calgary	107	Sept. 19, 1912
Beebe, Roy A.	Cowley	122	Oct. 17, 1912
Bowman, Harry H.	High River	126	Oct. 19, 1912
Baker, Edwin E.	Glenview	127	Oct. 19, 1912
Blegan, John P.	Crossfield	131	Oct. 19, 1912
Brown, Dewitt E.	Bells Hill	294	June 17, 1913
Boisvert, Alex.	Diligence	140	Jan. 13, 1913
Bennett, William H.	Calgary	141	Jan. 15, 1913
Bjornson, Carl A.	Lethbridge	142	Jan. 15, 1913
Bulford, George J.	High River	156	Mar. 14, 1913
Briggs, Ami C.	Stavely	166	Mar. 19, 1913
Brausen, Joseph H.	Spring Lake	174	Mar. 28, 1913
Bowie, George W.	Ferry Point	175	Mar. 28, 1913
Button, Albert M.	Wiste	313	Oct. 16, 1915
Behrens, David	Erskine	177	Mar. 28, 1913
Bonson, Mick	Castor	205	April 4, 1913
Bond, Lester H.	Bassano	215	April 4, 1913
Boschee, Jacob J.	Thelma	227	April 15, 1913
Burt, Leander B.	Suffield	251	April 23, 1913
Berger, Theo G.	Purple Springs	279	May 15, 1913
Betz, Wilber L.	Curlew	288	June 16, 1913
Brewer, William C.	Stettler	289	June 16, 1913
Bower, George E.	Calgary	297	June 18, 1913
Bricker, Ralph	Strome	307	July 10, 1913
Brown, Lawrence	Iethson	308	July 15, 1913
Barton, Reginald	Edmonton	330	Aug. 21, 1913
Bjornson, Henry A.	Pendant D'Oreille ..	341	Sept. 14, 1913
Brickman, Julius	Wetaskiwin	342	Sept. 16, 1913
Brown, Earl F.	Crossfield	362	Sept. 20, 1913
Brunelle, Oscar	St. Paul de Metis ..	400	Nov. 11, 1913
Burton, Edgar W.	Calgary	402	Jan. 7, 1914
Brown, Thomas	Frank	428	Mar. 24, 1914
Bass, George W.	Grande Prairie	407	Feb. 16, 1914
Bardell, Jesse	Taber	444	April 15, 1914
Bennett, Ira J.	Nobleford	445	April 15, 1914
Burbridge, Louis P.	Hardisty	454	April 16, 1914
Bachand, Alphonse	Legal	500	April 27, 1914
Bibby, Walter J.	Pine Creek	512	April 29, 1914
Bourbonnie, Vern	Lethbridge	545	Aug. 12, 1914
Barkman, Jowl J.	Acme	800	Sept. 28, 1915
Beck, Albert R.	Innisfail	561	Sept. 15, 1914
Bottger, Milton	Mayton	586	Oct. 10, 1914
Bell, Wm. F.	High River	820	Dec. 8, 1915
Burchnall, Frank M.	Bluff Centre	752	Sept. 8, 1915
Elackmer, John Russell ..	Coutts	663	Mar. 29, 1915
Briggs, Wm. E.	Ribbledale	639	April 8, 1915
Brown, Edward	Richdale	640	April 8, 1915
Bourbonnie, Geo. E.	Gadsby	657	April 16, 1915
Brocke, Torfin	Edmonton	704	May 12, 1915
Blakley, Henry	Irvine	732	Aug. 16, 1915
Black, Herbert L.	Cluny	787	Sept. 28, 1915
Besse, Floran	Langdon	811	Oct. 15, 1915
Barnhart, Clarence E.	Heatherdown	815	Nov. 15, 1915

TRACTION ENGINEERS' Final Certificates....*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Cale, Arthur Wm.	Lethbridge	339	Sept. 9, 1913
Choate, Stewart	Trochu	2	May 13, 1912
Curtis, Albert G.	Cora Lynn	3	May 13, 1912
Cook, Manny A.	Calgary	17	May 22, 1912
Cathcart, James	Edmonton	38	June 17, 1912
Christensen, Jacob	Standard	48	July 18, 1912
Coutts, Alex.	Warner	53	July 19, 1912
Church, Herbert Geo.	Winnifred	66	Aug. 14, 1912
Coldsnow, Alvah	Coutts	87	Sept. 17, 1912
Clark, Charles	Calgary	287	June 13, 1913
Caskey, Oran A.	Caskey	115	Sept. 27, 1912
Chaffin, John D.	Arrowood	129	Oct. 19, 1912
Chippenden, Henry L.	Bassano	138	Dec. 18, 1912
Colwell, Samuel W.	Vulcan	157	Mar. 14, 1913
Curtis, Guy H.	Strome	178	Mar. 28, 1913
Cameron, Donald F. B.	Sedgewick	179	Mar. 28, 1913
Cameron, John A.	Sedgewick	180	Mar. 28, 1913
Culler, Ira M.	Warner	199	Mar. 31, 1913
Curtis, Alfred	McDonaldville	256	April 26, 1913
Craig, Russel H.	Macklin	267	May 3, 1913
Currie, Dugald	Athabasca	273	May 14, 1913
Compton, John A.	Vermilion	301	June 21, 1913
Carson, William	Edmonton	331	Aug. 21, 1913
Carman, Alvin E.	Airdrie	363	Sept. 20, 1913
Carrier, Charles H.	Calgary	364	Sept. 20, 1913
Chubb, Ernest	Kew	365	Sept. 20, 1913
Cromarty, William A.	Pakan	376	Sept. 25, 1913
Courtright, Leo	Maughan	316	July 30, 1913
Campbell, John C.	Taber	455	April 16, 1914
Corbett, Richard A.	Edmonton S.	587	Oct. 13, 1914
Clark, Albert M.	Warner	438	April 2, 1914
Collett, Daniel R.	Taber	446	April 15, 1914
Carter, David M.	Ohaton	456	April 16, 1914
Charuk, Nicholas	Vegreville	479	April 17, 1914
Connelly, William A.	Cumming	480	April 17, 1914
Clawson, Horatio S.	Bassano	490	April 23, 1914
Cote, Peter	St. Edouard	513	April 29, 1914
Cole, Frank	Peace River Crossing	540	July 25, 1914
Cordel, Marius C.	Halkirk	562	Sept. 15, 1914
Cooper, William H.	High River	606	Nov. 23, 1914
Coultsman, Stanton	Orbindale	608	Dec. 11, 1914
Cridland, Walter	Summerview	802	Oct. 2, 1915
Christie, Andrew	Purple Springs	638	April 7, 1915
Cauther, Arthur L.	Medicine Hat	653	April 10, 1915
Clover, Guy H.	Cadogan	658	April 16, 1915
Clennin, Fred	Bawlf	659	April 16, 1915
Compton, Frank H.	Wetaskiwin	660	April 16, 1915
Cory, Melvin	Provost	661	April 16, 1915
Clough, Wm. James	Wetaskiwin	756	Sept. 14, 1915
Cross, Lewis W.	Botha	805	Oct. 12, 1915
Chew, Ernest H.	Hardisty	806	Oct. 13, 1915
Donnelly, Walter S.	Bow Island	33	June 14, 1912
Dimmer, Matt	Coaldale	67	Aug. 14, 1912
Dopp, Barnett	Seven Persons	88	Sept. 17, 1912
Danielson, Daniel T.	St. Kilda	89	Sept. 17, 1912
Derby, Bernie E.	Fort Saskatchewan ..	111	Sept. 20, 1912
Dalquist, August	Calmar	133	Nov. 8, 1912
Dillard, James	Killam	181	Mar. 28, 1913
Delmage, Harry	Taber	203	April 3, 1913
Davis, Henry D.	Three Hills	206	April 4, 1913
Davis, James M.	Ranfurly	234	April 17, 1913

TRACTION ENGINEERS' Final Certificates.---Continued.

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Djuff, Kleng	Dina	257	April 26, 1913
Ducholke, Mike	Stony Plain	258	April 26, 1913
Deas, John W.	Edmonton	284	May 20, 1913
Dobbs, Leo W.	Iowalta	290	June 16, 1913
Day, George F.	Jackville	621	Feb. 26, 1915
Dierks, Charles Theo.	Calgary	366	Sept. 20, 1913
Desler, Herman F.	Stavely	431	Mar. 27, 1914
Davis, Harry	Edmonton	433	April 2, 1914
Drebert, August	New Sarepta	617	Feb. 12, 1915
Daniels, Charles M.	Hardisty	757	Sept. 14, 1915
Darker, Resto M.	Lougheed	773	Sept. 20, 1915
Dawson, George A.	Sibbald	788	Sept. 28, 1915
Douglas, Wm. J.	Penhold	816	Nov. 17, 1915
Eggenberger, Emil W.	Coalbanks	4	May 13, 1912
Engle, Ralph N.	Bassano	31	June 11, 1912
Elliott, Walter E.	Calgary	130	Oct. 19, 1912
Estwick, Emanuel	Carlstadt	216	April 7, 1913
Enzenauer, Arthur	Loma	217	April 7, 1913
Ensign, A. L.	Whitla	327	Aug. 12, 1913
Earl, William R.	Norton	427	Mar. 16, 1914
Edwards, Richard	Carmangay	447	April 15, 1914
English, Wm. S. O.	Spirit River	541	Aug. 5, 1914
Estell, Earl E.	Mirror	563	Aug. 15, 1914
Ellefson, Andrew	Balham	596	Oct. 19, 1914
Ericksen, Abraham	Erskine	622	Mar. 12, 1915
Evans, Owen	Puffer	662	April 16, 1915
Eyben, Henry A.	Cummings	687	April 20, 1915
Eggenberger, Lionel G.	Ardley	710	June 10, 1915
Eld, Edward Bert	Parkland	736	Aug. 20, 1915
Emme, Wm. O.	Cayley	789	Sept. 28, 1915
Engleking, Aug. J.	Lethbridge	814	Nov. 13, 1915
Fyrk, Gust	Pendant D'Oreille	12	May 18, 1912
Firth, Wilfrid	Lethbridge	123	Oct. 17, 1912
Frederickson, D. O.	Calgary	134	Nov. 8, 1912
Forbes, Percy H.	Lacombe	143	Jan. 24, 1913
Fry, John	Edmonton	312	July 17, 1913
Farries, Cameron	Grassy Lake	326	Aug. 12, 1913
Forbes, Henry	Lacombe	343	Sept. 16, 1913
Finlay, L. Jackson	Calgary	367	Sept. 20, 1913
Forey, John J.	Big Valley	325	June 12, 1914
Foster, Alfred J.	Consort	411	Mar. 12, 1914
Foster, Norman M.	Consort	412	Mar. 12, 1914
Fogarty, Francis D.	Whitla	448	April 15, 1914
Fitzgerald, William	St. Paul de Metis	514	April 29, 1914
Freadrich, Albert H.	Strome	542	Aug. 11, 1914
Furnish, Jesse E.	Langdon	556	Aug. 22, 1914
Ferguson, Robert	Tudor	568	Sept. 21, 1914
Faith, William A.	Vegreville	572	Sept. 30, 1914
Fuhrhop, Otto	Edmonton South	588	Oct. 15, 1914
Ferguson, Fred. G.	Spruce Grove	589	Oct. 15, 1914
Fead, Norman W.	Innisfail	663	April 15, 1915
Fossum, John E.	Consort	664	April 15, 1915
Furnald, Vern F.	Stavely	725	July 15, 1915
Freiman, Gustav	Wetaskiwin	763	Sept. 14, 1915
Green, John Henry	Staunton	68	Aug. 14, 1912
Gray, Joseph O.	Grassy Lake	13	May 18, 1912
Grubert, Henry	Leduc	57	Aug. 12, 1912
Gow, Archibald	Athabasca Landing	40	June 28, 1912
Gilchrist, Lee	Hill Springs	90	Sept. 17, 1912

TRACTION ENGINEERS' Final Certificates.---Continued.

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Graham, Fred. O.	Claresholm	91	Sept. 17, 1912
Gibson, Raymond	Warner	152	Mar. 10, 1913
Gale, Edwin	Stettler	182	Mar. 28, 1913
Gibson, E. E.	Warner	200	Mar. 31, 1913
Gibeault, J. Eugene	Morinville	443	April 14, 1914
Gray, Wm. Bain	Okotoks	409	Feb. 19, 1914
Graham, James F.	Brocket	420	Mar. 14, 1914
Gilbertson, Charley	Oyen	457	April 16, 1914
Goodwill, Seth	Cereal	458	April 16, 1914
Gray, Harry L.	Whitla	491	April 23, 1914
Gerrie, William	Orville	536	June 22, 1914
Geistlinger, Charles	Golden Spike	539	July 16, 1914
Gesha, Rhiengold	Bawlf	549	Aug. 14, 1914
Goebble, Louis H.	Spruce Grove	550	Aug. 17, 1914
Grandahl, Albert	Kingman	551	Aug. 17, 1914
Goebel, Matthias	Spruce Grove	609	Dec. 11, 1914
Gotenborg, Otto T.	Coutts	252	April 21, 1913
Getts, Gardo F.	Carmangay	253	April 23, 1913
Green, George H.	Alsask	285	May 21, 1913
Gale, Joseph A.	Stettler	291	June 16, 1913
Garrison, Clinton	Edmonton	325	Aug. 12, 1913
George, Fred. R.	Cadogan	332	Aug. 21, 1913
Gitzel, Gustave	Stony Plain	333	Aug. 21, 1913
Groft, John W.	Strathmore	368	Sept. 20, 1913
Gauthier, Artem	Edmonton South	548	Aug. 12, 1914
Giesse, Henry	Spruce Grove	392	Oct. 22, 1913
Gaugner, Arthur O.	Lethbridge	785	Sept. 27, 1915
Green, Charles	Bellis	626	Mar. 19, 1915
Glen, Frank	Calgary	631	Mar. 26, 1915
Gordon, George E.	Scottfield	641	April 8, 1915
Gorrell, Charles W.	Castor	665	April 16, 1915
Geehan, Edgar	Calgary	693	April 23, 1915
Goebel, Ludwig	Spruce Grove	705	May 12, 1915
Good, James	Edmonton	718	July 13, 1915
Gallion, Benj. F.	Gadsby	758	Sept. 14, 1915
Grigat, Wm.	Leduc	774	Sept. 20, 1915
Grieve, Hugh T.	Vulcan	812	Oct. 15, 1915
Green, Wm. H.	Raymond	822	Dec. 16, 1915
Harwood, Gordon W.	Stettler	5	May 13, 1912
Hesse, William	Calgary	18	May 22, 1912
Hewer, Eber J.	Hairy Hill	58	Aug. 12, 1912
Haley, Edward George	Wheat Centre	74	Aug. 20, 1912
Hantsman, Lewis J.	Carmangay	92	Sept. 17, 1912
Hall, Wm. J.	Calgary	105	Sept. 19, 1912
Harmel, Edward	Edmonton	116	Sept. 27, 1912
Henderson, Harry	Okotoks	128	Oct. 19, 1912
Harris, William Ira	Raymond	167	Mar. 19, 1913
Hagen, Lars E.	Donalda	183	Mar. 28, 1913
Hill, Wellington	Macklin	184	Mar. 28, 1913
Hills, W. Ellsworth	Camrose	185	Mar. 28, 1913
Hodgson, Thomas	Taber	204	April 3, 1913
Hibbert, William J.	Medicine Hat	229	April 15, 1913
Hill, Leslie	Calgary	238	April 21, 1913
Howard, Lindsay L.	Calgary	244	April 21, 1913
Holden, Frank	Lethbridge	254	April 21, 1913
Hellekson, Henry J.	Edson	259	April 26, 1913
Houle, William	Edson	274	May 14, 1913
Hyatt, James E.	Halkirk	292	June 16, 1913
Harrison, Oscar W.	Noble	321	Aug. 11, 1913
Hilstad, Carl	Bentley	344	Sept. 16, 1913
Huculak, Bronislaw	Skaro	401	Dec. 17, 1913

TRACTION ENGINEERS' Final Certificates.---Continued.

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Hallvarson, Peter W.	Black Diamond	612	Dec. 15, 1914
Hart, Wm. A.	Lethbridge	405	Feb. 12, 1914
Harper, Morden	Lethbridge	421	Mar. 14, 1914
Hacke, William	Milk River	439	April 2, 1914
Hanson, Henry L.	Bawlf	459	April 16, 1914
Hess, Thurman C.	Oyen	460	April 16, 1914
Huff, Henry	Provost	461	April 16, 1914
Heald, Ivan	Winnifred	492	April 23, 1914
Henry, Charles T.	Bow Island	493	April 23, 1914
Hill, Joseph I.	Ryley	502	April 27, 1914
Hermansen, Carl	Fox	528	June 17, 1914
Hendrickson, Chas. G.	Red Deer	564	Sept. 15, 1914
Hopkins, James W.	Trentville	565	Sept. 15, 1914
Hayes, Daniel W.	Battenberg	573	Sept. 30, 1914
Hennig, Jacob	Stony Plain	574	Sept. 30, 1914
Haun, Burton	Irma	590	Sept. 15, 1914
Henderson, Richard	Raymond	594	Oct. 17, 1914
Hapal, Edward	Edmonton	604	Nov. 19, 1914
Hawrylink, Fred.	Vegreville	605	Nov. 19, 1914
Holcomb, Harry W.	High River	607	Nov. 23, 1914
Hyde, George T.	High River	764	Sept. 14, 1915
Haskins, Martin	Vermilion	751	Sept. 4, 1915
Haughrud, Syver J.	Calgary	706	May 18, 1915
Haarsted, Alfred Berger ..	Bentley	615	Feb. 10, 1915
Hammer, Olaf	Claresholm	624	Mar. 24, 1915
Heller, Otto M.	Warner	635	Mar. 29, 1915
Haughseth, Hingward	Tofield	648	April 10, 1915
Hedland, Johnnie E.	Greenshields	649	April 10, 1915
Hauer, Pedro	Wiste	666	April 16, 1915
Haner, Cyrus Edgar	Red Willow	667	April 16, 1915
Harvey, Newton	Jarrow	688	April 20, 1915
Haynes, Clay E.	Parkland	702	May 7, 1915
Hutchison, Jarvis E.	Wetaskiwin	759	Sept. 14, 1915
Hunt, Wm. E.	Commerce	765	Sept. 15, 1915
Hamilton, Arthur	Camrose	775	Sept. 20, 1915
Harder, Abraham	Stirlingville	790	Sept. 28, 1915
Henderson, Wm. T.	Okotoks	791	Sept. 28, 1915
Hanson, John Albert	Parkland	809	Oct. 14, 1915
Iverson, Louis O.	Bismark	29	June 10, 1912
Irving, Frank	Edmonton	302	June 21, 1913
Irwin, Arthur H.	Fort Saskatchewan ..	741	Aug. 24, 1915
Jerome, Earl	Noble	14	May 18, 1912
Johnson, John G.	Suffield	19	May 22, 1912
Johnson, Aug. K.	Strathcona	25	May 29, 1912
Jackson, Lionel A.	Calgary	75	Aug. 20, 1912
Jamieson, Henry W.	Nanton	76	Aug. 20, 1912
Johannsen, Hy. G.	Bergen	113	Sept. 21, 1912
Johnston, Albert E.	Edmonton	117	Sept. 27, 1912
Johnson, Oscar F.	Strathmore	139	Dec. 18, 1912
Jackline, Morley	Lethbridge	306	July 10, 1913
Johnson, Lars B.	Donalda	186	Mar. 28, 1913
James, William J.	Halkirk	207	April 4, 1913
Julson, Hans G.	Bassano	239	April 21, 1913
Jennings, Thomas	Strathmore	240	April 21, 1913
Johnson, John A.	Millet	271	May 10, 1913
Johnson, Louis	Brocket	280	May 15, 1913
Johnson, Cornelius G.	Carlstadt	317	Aug. 6, 1913
Johnson, J. O.	Stoppington	750	Sept. 1, 1915
Johnston, Edwin N.	Yetwood	329	Aug. 12, 1913
Jackson, Adam W.	Coronation	413	Mar. 12, 1914

TRACTION ENGINEERS' Final Certificates.---Continued.

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Johnison, Jacob B.	Reid Hill	449	April 15, 1914
Jackson, And. S.	Richdale	462	April 16, 1914
Jenkins, Reuben R.	Ponoka	463	April 16, 1914
Johnson, Hjalmar B.	Angle Lake	481	April 17, 1914
Johnson, Gunnar	Edmonton	537	June 22, 1914
Johnson, John Henry	Bow Island	544	Aug. 12, 1914
James, Thomas	Cochrane	558	Aug. 22, 1914
Johnson, John Edgar	Gwynne	591	Oct. 15, 1914
Johnson, John M.	Monitor	728	Oct. 13, 1915
Jaeck, Wallis N.	Mirror	760	Sept. 14, 1915
Jones, Perry W.	Winnifred	766	Sept. 15, 1915
Johnson Henry E.	Nanton	799	Sept. 28, 1915
Klaparezuk, Stephen	Mundare	121	Oct. 14, 1912
Krodel, John A.	Irvine	55	July 23, 1912
Koester, Clarence G.	Lost Lake	69	Aug. 14, 1912
Kelly, Robert	Calgary	77	Aug. 20, 1912
Kuhl, Edward	Calgary	20	May 22, 1912
Kirsthman, Jacob	Castor	208	April 4, 1913
Knight, Absalom	Sounding Creek	209	April 4, 1913
Klageg, Knut	Calgary	241	April 21, 1913
Killian, Andrew A.	Holden	260	April 26, 1913
Knapc, Gus F.	Bassano	318	Aug. 6, 1913
Kruger, Rune H.	Trochu	345	Sept. 16, 1913
Kotscherofsky, John	Stony Plain	377	Sept. 25, 1913
Kleparczuk, Michael	Chipman	393	Oct. 22, 1913
Kruschel, Julius	Bowden	414	Mar. 12, 1914
Kenney, Ernest	Calgary	488	April 21, 1914
Kuhl, Adolph	Nanton	494	April 23, 1914
Kvindegard, Lars	Innisfree	552	Aug. 17, 1914
Kirstein, Rudolph	Wetaskiwin	603	Nov. 14, 1914
Kaump, Clarence E.	Lethbridge	614	Jan. 14, 1915
Koroluk, John	Zwale	627	Mar. 19, 1915
Koelsch, Jos. Sam	Bassano	644	April 9, 1915
Krossa, Richard	Leduc	650	April 10, 1915
Kennedy, Lewis Chas.	Veteran	668	April 16, 1915
Knutson, Lewis	Provost	669	April 16, 1915
Kroetsch, Ambrose G.	Hastings Coulee	670	April 16, 1915
Keim, Philip	Acme	712	June 11, 1915
Kanneman, David F.	Lethbridge	716	June 16, 1915
Kellichoe, Victor	Villeneuve	742	Aug. 24, 1915
Kellicut, Frank	Granum	767	Sept. 15, 1915
Kettleson, Ole	Star	776	Sept. 20, 1915
Kirvit, Charles	Edmonton	807	Oct. 13, 1915
Kennedy, James B.	Camrose	818	Nov. 17, 1915
Loomer, Charles S.	Endiang	6	May 13, 1912
Langer, Paul	Eckville	30	June 10, 1912
Lyon, Jay	Claresholm	35	June 14, 1912
Latta, Charles W.	Tofield	39	June 17, 1912
Lawin, Frank E.	Pine Creek	59	Aug. 12, 1912
Lawler, Joseph W.	Lethbridge	70	Aug. 14, 1912
Lefebvre, Adelard J.	Irvine	72	Aug. 14, 1912
Litke, Steve	Gleichen	78	Aug. 20, 1912
Lynn, John W.	Crossfield	101	Sept. 19, 1912
Lerbeckmo, Peter	Bardo	112	Sept. 20, 1912
Lagrasse, John L.	Edison	275	May 14, 1913
Love, Charles M.	Lethbridge	150	Feb. 19, 1913
Lindquist, John A.	Bigstone	218	April 7, 1913
Loewen, Jacob D. R.	Sunnyslope	219	April 7, 1913
Lapierre, Joseph	Duvernay	235	April 17, 1913
Lucas, Jacob A.	Calgary	242	April 21, 1913

TRACTION ENGINEERS' Final Certificates.---Continued.

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Levers, Reginald	Munson	243	April 21, 1913
Long, Arth. S.	Bassano	245	April 21, 1913
Lawson, Harry	Edgerton	261	April 26, 1913
Lawin, Edward A.	Pine Creek	262	April 26, 1913
Lindblad, Henning	Spring Coulee	281	May 15, 1913
Lyon, Herbert T.	Calgary	323	Aug. 11, 1913
Lindquist, Arthur	Czar	346	Sept. 16, 1913
Leicht, David	Hanna	347	Sept. 16, 1913
LaValley, Lawrence	Carmangay	354	Sept. 18, 1913
Lee, Ole J.	Bow Island	355	Sept. 18, 1913
Lepard, Norman	Claresholm	356	Sept. 18, 1913
Lovering, Eroul E.	Iron Springs	357	Sept. 18, 1913
Lee, Henry	Wetaskiwin	378	Sept. 25, 1913
Lindsay, Charles B.	Greenshields	379	Sept. 25, 1913
Lobb, Rodmond	Edmonton	380	Sept. 25, 1913
Lund, Otto O.	Holden	381	Sept. 25, 1913
Letourneau, Leo M.	High River	397	Nov. 8, 1913
Loney, Thos. E.	Donalda	419	Mar. 12, 1914
Linder, Thos. W.	Spring River	424	Mar. 14, 1914
Lorentson, Emil	Vandyne	464	April 16, 1914
Labby, George	LaCalmette	503	April 27, 1914
Lock, James W.	Champion	529	June 17, 1914
Leug, Reginald Edgar	Bassano	531	June 20, 1914
Leedholm, Gust. T.	Lougheed	566	Sept. 15, 1914
Lockhart, Frederick R.	Edmonton	575	Sept. 30, 1914
Lund, Ole O.	Viking	597	Oct. 19, 1914
Lindholm, Roger	Calgary	599	Oct. 20, 1914
Lees, William	Edmonton	610	Dec. 11, 1914
Lougheed, Henry W.	Nanton	613	Dec. 17, 1914
Lee, Thomas H.	Olds	708	May 21, 1915
Lundy, John Edward	Calgary	618	Feb. 20, 1915
Lambert, Alex.	Duvernay	628	Mar. 19, 1915
Lapierre, Philippe	Coleman	630	Mar. 23, 1915
Lefevre, Elzear	Irvine	645	April 9, 1915
Leitheiser, Matthew	Rosenheim	671	April 16, 1915
Loney, Godthard	Donalda	672	April 16, 1915
Locke, Roy	Champion	721	July 14, 1915
Lloyd, William	Lethbridge	768	Sept. 15, 1915
Loveseth, Enoch L.	Camrose	803	Oct. 12, 1915
Magill, Otis D.	Calgary	79	Aug. 20, 1912
Matti, Adolf	Macleod	93	Sept. 17, 1912
Maki, Gust.	Sylvan Lake	135	Nov. 12, 1912
Mullane, Chris. D.	Lethbridge	137	Dec. 17, 1912
Marty, Robert, Jr.	Carlstadt	315	July 30, 1913
Muir, George S.	Pincher Creek	162	Mar. 14, 1913
Melnyk, Joseph	Lamont	170	Mar. 26, 1913
Madden, Fred. C.	Cardston	201	Mar. 29, 1913
Morgenroth, Emil	Langdon	220	April 7, 1913
Marty, Oscar	Suffield	221	April 7, 1913
Mitchell, William A.	Tofteld	264	April 26, 1912
Manske, Gustav	Macklin	268	May 3, 1913
Mark, Leonard	Mannville	269	May 3, 1913
Mundell, David L.	Cherhill	276	May 14, 1913
Martin, Harvey R.	Namaka	296	June 18, 1913
Moore, George	Winnifred	298	June 19, 1913
Mead, Russell	Calgary	310	July 15, 1913
Minchon, John	Bruce	334	Aug. 21, 1913
Moss, John B.	Stavely	353	Sept. 18, 1913
Maynard, Frank	Britain	388	Oct. 10, 1913
Marshall, Charles Theo.	Spring Point	422	Mar. 14, 1914
Mitchell, Robert Geo.	Tofteld	435	April 2, 1914

TRACTION ENGINEERS' Final Certificates.---Continued.

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Martin, James E.	Mecheche	466	April 16, 1914
Moe, Alfred	Perbeck	467	April 16, 1914
Mjolsness, Alfred	Didsbury	468	April 16, 1914
Maurer, Alfred Robert	Hussar	520	May 18, 1914
Murschel, Emanuel	Calgary	532	June 20, 1914
Morris, Creed R.	Nobleford	546	Aug. 12, 1914
Maxwell, Henry C.	Claresholm	547	Aug. 12, 1914
Manning, Henry B.	Amisk	576	Sept. 30, 1914
Martin, Wm. Henry	Bremner	577	Sept. 30, 1914
Miller, Ludwig	Edmonton South	578	Sept. 30, 1914
Magee, William C.	Parkland	600	Oct. 20, 1914
Messner, John F.	Hastings Coulee	771	Sept. 17, 1915
Milligan, Morris	Purple Springs	749	Aug. 24, 1915
Mitchell, Charles	Parkland	619	Feb. 20, 1915
Morasse, Gideon	Morinville	637	April 5, 1915
Mullen, Alvin Otto	Wastina	642	April 8, 1915
Moose, Chris.	Logan	651	April 10, 1915
Mitchell, David H.	Tofield	652	April 10, 1915
Magenitey, Arminesus	Killam	673	April 16, 1915
Mezel, Wm. J.	Cadogan	674	April 16, 1915
Mielke, Walter	Cadogan	675	April 16, 1915
Moore, Wm. James	Camrose	676	April 16, 1915
Martin, John	Monitor	700	May 7, 1915
Munson, Joseph	Reid Hill	703	May 7, 1915
Metheny, Raymond	Kinmundy	713	June 11, 1915
Marvin, Walter	Drumheller	714	June 11, 1915
Morrison, Wm.	Lethbridge	769	Sept. 15, 1915
Mocherman, Walter	Lone Butte	792	Sept. 28, 1915
Mole, John	Lacombe	804	Oct. 12, 1915
Mellon, George E.	Edmonton	808	Oct. 13, 1915
McCoy, Martin H.	Coaldale	15	May 18, 1912
McGhan, Lloyd James	Clover Bar	60	Aug. 12, 1912
McNab, Duncan	Kipp	96	Sept. 17, 1912
McDowell, Grant S.	Vulcan	124	Oct. 17, 1912
McNarland, Robert J.	Granum	332	Aug. 29, 1913
McGinnis, John W.	Lethbridge	374	Sept. 23, 1913
McKeage, Alfred	Aldersyde	158	Mar. 14, 1913
McWhirter, And. L.	Round Hill	225	April 10, 1913
McLeod, Alex.	Walsh	230	April 15, 1913
McKinney, Heber	Suffield	231	April 15, 1913
McLeod, James	Paradise Valley	263	April 26, 1913
McNally, Roy	Alsask	314	July 22, 1913
McKenzie, Rod.	Midnapore	389	Oct. 13, 1913
McDonald, Wm.	Edmonton	406	Feb. 16, 1914
McGowan, Wm.	Castor	415	Mar. 12, 1914
McGinnis, James	Cowley	429	Mar. 24, 1914
McFadden, Charles B.	Edmonton	431	April 2, 1914
McKay, Malcolm	Carmangay	450	April 15, 1914
McNabb, A. B.	Chinook	465	April 16, 1914
McMullen, Robert	Downing	482	April 17, 1914
McCaughy, Frank H.	Bassano	495	April 23, 1914
McCaig, Clifford Roy	Wainwright	504	April 27, 1914
McCoy, Joseph Ed.	Edmonton	515	April 29, 1914
McGhan, James	Bremner	516	May 7, 1914
MacDougall, Leonard	Keephills	523	May 19, 1914
McGowan, John M.	Richdale	557	Aug. 22, 1914
McBeth, James Austin	Tofield	579	Sept. 30, 1914
McIntee, James	Beaver Mines	819	Nov. 20, 1915
McCormick, Donald J.	Calgary	793	Sept. 28, 1915
McGowan, Wilmer H.	Richdale	701	May 7, 1915

TRACTION ENGINEERS' Final Certificates.---Continued.

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Nichols, Edward A.	Bow Island	153	Mar. 10, 1912
Narkaus, Thomas	Granum	168	Mar. 19, 1912
Nickerson, Joseph H.	Strome	171	Mar. 26, 1912
Nulph, James G.	Sedgewick	187	Mar. 28, 1912
Nelson, Norman	Cadogan	188	Mar. 28, 1912
Norton, Russell J.	Richdale	246	April 21, 1912
Nelson, Ernest W.	Calgary	125	Oct. 19, 1912
Nemsgern, Nicholas	Claresholm	94	Sept. 17, 1912
Norris, Roy James	Lethbridge	95	Sept. 17, 1912
Northern, B. W.	Calgary	324	Aug. 11, 1913
Nafziger, Joseph G.	Vulcan	358	Sept. 18, 1913
Nichol, James	Langdon	369	Sept. 20, 1913
Nelson, Sanford E.	Yeoford	403	Jan. 12, 1914
Nichols, Roy A.	Donalda	469	April 16, 1914
Nelson, Nels C.	Edmonton	505	April 27, 1914
Neutzling, John	Bashaw	526	June 13, 1914
Noyak, Isidore E.	Vegreville	553	Aug. 17, 1914
Norberg, John	Boyne Lake	592	Oct. 15, 1914
Newsom, Dana Ray	Bassano	646	April 9, 1915
Ogden, Herman E.	Pincher City	34	June 14, 1912
Olson, Oscar T.	Hutton	49	July 18, 1912
Osterloh, George	Pleasington	144	Feb. 12, 1913
Olsgard, Arthur	Halkirk	189	Mar. 28, 1913
Owen, Arthur	Bassano	222	April 7, 1913
O'Neil, James W.	Winnifred	232	April 15, 1913
O'Connor, Tim	Mannville	236	April 17, 1913
Overgard, Jacob	Crossfield	247	April 21, 1913
Ostheller, Ferdinand	Trochu	348	Sept. 16, 1913
Owre, Angus L.	Daysland	470	April 16, 1914
Osell, William J.	Midnapore	569	Sept. 21, 1914
Olsen, Andrew B.	Irma	593	Oct. 15, 1914
O'Neil, John H.	Crossfield	632	Mar. 26, 1915
Osteb, Halfdan	Coutts	636	Mar. 29, 1915
O'Donnell, Peter	Purple Springs	699	April 27, 1915
Olsen, Axel E.	Innisfree	743	Aug. 24, 1915
O'Neill, Wm. T.	Edmonton	744	Aug. 24, 1915
Perin, Charles A.	Calgary	50	July 18, 1912
Pearson, Vernon	Lethbridge	54	July 19, 1912
Pennington, Wm.	Lethbridge	136	Nov. 13, 1912
Pearson, Augustus	Bellevue	163	Mar. 19, 1913
Proudley, Harry	Lethbridge	154	Mar. 10, 1913
Peterson, Henry A.	Ohaton	190	Mar. 28, 1913
Pettie, Lewis L.	Castor	210	April 4, 1913
Pudwell, Henry	Medicine Hat	233	April 15, 1913
Paulin, Henry	Vegreville	237	April 17, 1913
Parken, Walter	Calgary	248	April 21, 1913
Perry, George H.	Perbeck	293	June 16, 1913
Palmer, Wilfred	Albay	299	June 19, 1913
Peabody, Harvey M.	Calgary	349	Sept. 16, 1913
Phelps, Harvey J.	Toffield	335	Aug. 21, 1913
Paulson, John M.	Barons	359	Sept. 18, 1913
Petit, Moise	Edmonton North	382	Sept. 25, 1913
Pinkham, Edwin S.	Leslieville	390	Oct. 13, 1913
Pettie, Earl L.	Castor	416	Mar. 12, 1914
Peters, Henry H.	Carbon	430	Mar. 25, 1914
Peterson, Elmer A.	Major	440	April 6, 1914
Phillips, Thomas H.	Holden	483	April 17, 1914
Perkins, Percy J.	Richdale	519	May 13, 1914
Patterson, Norman J.	Nobleford	530	June 17, 1914

'TRACTION ENGINEERS' Final Certificates.---Continued.

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Pue, William H.	Cheadle	533	June 20, 1914
Parrent, Alexander	Jeffrey	580	Sept. 30, 1914
Peterson, Robert T.	Gleichen	601	Oct. 20, 1914
Palar, Henry	Wanda	755	Sept. 10, 1915
Padden, Thomas	Medicine Hat	654	April 10, 1915
Portner, Edward Chas.	Innisfree	620	Feb. 20, 1915
Paetz, Martin	Bigstone	643	April 8, 1915
Peden, Walter E.	Gadsby	677	April 16, 1915
Portway, Peter D.	Hayter	678	April 16, 1915
Phillips, Ruby C.	Samsonton	694	April 23, 1915
Ponton, Louis	Colinton	719	July 13, 1915
Panas, Dmyter	Copernick	745	Aug. 24, 1915
Pasymko, Pawlo	Scaro	777	Sept. 20, 1915
Priestman, David D.	Edmonton	778	Sept. 20, 1915
Quebec, Wm. F.	Railway Centre	779	Sept. 20, 1915
Robertson, Donald	Medicine Hat	36	June 14, 1912
Rowlands, Hugh G.	Delroys	51	July 18, 1912
Rennie, James C.	Yetwood	71	Aug. 14, 1912
Rhoads, George	Calgary	80	Aug. 20, 1912
Rickey, Foster	Lethbridge	97	Sept. 17, 1912
Richardson, C. E.	Carstairs	146	Feb. 13, 1913
Rifford, Thaddeus	Stavely	149	Feb. 19, 1913
Ravensborg, Harry	Asker	191	Mar. 28, 1913
Roberts, Delbert	West Wingham	192	Mar. 28, 1913
Ramsey, Frank	West Wingham	211	April 4, 1913
Rousche, Claud	Gleichen	223	April 7, 1913
Roneberg, Edward	Eagle Hill	249	April 21, 1913
Raitz, Charles E.	Warner	282	May 15, 1913
Ross, Anson Charles	Lethbridge	300	June 19, 1913
Roth, Gustave	Leduc	336	Aug. 21, 1913
Radcliffe, Fred M.	Stony Plain	337	Aug. 21, 1913
Ross, Chas. Chris.	Innisfail	350	Sept. 16, 1913
Rhoads, Harvey L.	Calgary	370	Sept. 20, 1913
Rhyason, William	Strome	394	Oct. 22, 1913
Robb, Charles	Bassano	521	May 18, 1914
Richards, Alex.	Sullivan Lake	527	June 13, 1914
Richards, Benjamin M.	Strome	554	Aug. 17, 1914
Rathbun, Lucius F.	High River	559	Aug. 22, 1914
Robbins, Asahel S.	Peace River Crossing	570	Sept. 23, 1914
Reddick, Robert E.	Calgary	602	Oct. 20, 1914
Rusk, Andrew P.	New Dayton	727	Aug. 7, 1915
Rogers, Clifford R.	Edmonton	795	Sept. 28, 1915
Robarge, Edward	St. Paul de Metis	629	Mar. 19, 1915
Robertson, Wm. Helmuth	Medicine Hat	655	April 10, 1915
Rhodes, Richard	Caroline	679	April 16, 1915
Ronneberg, Arnold	Eagle Hill	680	April 16, 1915
Ringland, David E.	Macleod	717	June 16, 1915
Ruth, Herbert G.	Macklin	729	Aug. 13, 1915
Richards, Hyrum	Aetna	770	Sept. 15, 1915
Rollag, John O.	Wrentham	784	Sept. 21, 1915
Ringle, Cecil S.	High River	794	Sept. 28, 1915
Richards, J. Vatsis	Aetna	821	Dec 13, 1915
Smith, Rowland	Caseleyville	7	May 13, 1912
Scheersmidt, Bernhardt	Stettler	8	May 13, 1912
Smith, Manley	Olds	11	May 15, 1912
Scott, William J.	Bassano	21	May 22, 1912
Stauffer, John L.	Round Hill	24	May 29, 1912
Scott, Allan O.	Kinsella	42	July 16, 1912
Stott, John J.	Hardisty	43	July 16, 1912

TRACTION ENGINEERS' Final Certificates.---Continued.

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Sidey, Elmer	Jethson	52	July 18, 1912
Sandstrom, Axel	Calmar	61	Aug. 12, 1912
Schultz, Fred. H.	Bruderheim	62	Aug. 12, 1912
Samuelson, Lorantz	Cummings	63	Aug. 12, 1912
Stewart, William J.	Hughenden	81	Aug. 22, 1912
Straus, Fred. J.	Stavely	98	Sept. 17, 1912
Scott, Robert T.	Cayley	108	Sept. 19, 1912
Stevenson, Ivie W.	Calgary	109	Sept. 19, 1912
Stewart, Martin O.	Calgary	110	Sept. 19, 1912
Smith, Aug. W. DeH.	Paddle River	114	Sept. 20, 1912
Snell, Edward	Bittern Lake	118	Sept. 27, 1912
Scheideman, John	Mewassin	120	Oct. 10, 1912
Streich, Daniel	Content	145	Feb. 12, 1913
Senff, Ernest W.	Blackie	159	Mar. 14, 1913
Stuckey, Richard P.	Calgary	160	Mar. 14, 1913
Sorge, Otto R.	Pincher Creek	164	Mar. 19, 1913
Sharlow, Henry T.	Wetaskiwin	193	Mar. 23, 1913
Shantz, Wilfred S.	Didsbury	212	April 4, 1913
Semple, Hugh	Chauvin	265	April 26, 1913
Swift, George H.	Magin	270	May 3, 1913
Stoner, Edgar C.	Lacombe	272	May 12, 1913
Shank, Eddie J.	Athabasca	277	May 14, 1913
Shank, Philip	Athabasca	278	May 14, 1913
Sims, John B.	Namaka	295	June 18, 1913
Shelton, Henry	Edmonton	303	June 21, 1913
Symington, George	Edmonton	304	June 21, 1913
Sheets, William H.	Viking	313	July 17, 1913
Smith, Charles	Gladby	320	Aug. 9, 1913
Sterling, Edward J.	Sterlingville	351	Sept. 16, 1913
Sear, Robert J.	Calgary	371	Sept. 20, 1913
Schultze, Otto	Edmonton	383	Sept. 25, 1913
Sheets, Lloyd	Rosenroll	384	Sept. 25, 1913
Saunders, Leslie J.	Olds	395	Nov. 7, 1913
Sutton, Henry H.	Calgary	398	Nov. 8, 1913
Smith, George W.	Edmonton S.	408	Feb. 16, 1914
Slater, Ray L.	Consort	417	Mar. 12, 1914
Shaw, Rollie W.	Nanton	425	Mar. 14, 1914
Steen, Arnold	Bardo	436	April 2, 1914
Scott, Ernest S.	Gleichen	442	April 6, 1914
Shankey, Wm. John	Rose Lynn	471	April 16, 1914
Shepard, Walter	New Brigden	472	April 16, 1914
Sorenson, Andrew	Killam	473	April 16, 1914
Sprague, Lawren. W.	Monitor	474	April 16, 1914
Steele, Robert J.	Cadogan	475	April 16, 1914
Schmidt, Louis	Brightview	476	April 16, 1914
Strauman, Carl	Islay	484	April 17, 1914
Schlosser, Seymour	Mosside	485	April 17, 1914
Spring, Henry C.	Bow Island	496	April 23, 1914
Stoddart, Charles	Paradise Valley	506	April 27, 1914
Steffes, Alva A.	Morinville	509	April 27, 1914
Sherbeck, Carl O.	Wetaskiwin	543	Aug. 11, 1914
Stevens, Levi	Inga	581	Sept. 30, 1914
Steinbach, John	Vegreville	582	Sept. 30, 1914
Suder, George	Spruce Grove	583	Sept. 30, 1914
Simmons, Fred	Fort Saskatchewan ..	598	Oct. 19, 1914
Shaffer, William J.	Cravath Corners	611	Dec. 11, 1914
Sanborn, Francis A.	Innisfail	625	Mar. 18, 1915
Sills, Jerry	Penhold	616	Feb. 15, 1915
Scott, George	Pine Lake	623	Mar. 12, 1915
Stratton, Gilbert C.	Wessington	681	April 16, 1915
Slifka, James Charles	Botha	682	April 16, 1915
Sundberg, Henry	Daysland	683	April 16, 1915

TRACTION ENGINEERS' Final Certificates.---Continued.

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Spiers, Alex.	Innisfree	689	April 20, 1915
Schaub, Jacob J.	Piamondonville	690	April 20, 1915
Snell, George	Chauvin	691	April 20, 1915
Swan, Jeff	Chauvin	692	April 20, 1915
Southwood, Thomas J.	Crossfield	695	April 23, 1915
Shaw, Robert John	Edmonton	698	April 27, 1915
Stewart, George Wallis	Ponoka	711	June 10, 1915
Schwank, Gustave	Bruderheim	715	June 15, 1915
Schmidt, Edward	Wetaskiwin	720	July 13, 1915
Schukar, Robert J.	Didsbury	730	Aug. 13, 1915
Stearns, Lyle	Stirlingville	723	Aug. 19, 1915
Smart, Grover C.	Salemead	734	Aug. 19, 1915
Schumacher, Jos. A.	Stavelly	737	Aug. 20, 1915
Spannel, Louis	Wetaskiwin	746	Aug. 24, 1915
Strain, George Edwin	Altorado	753	Sept. 10, 1915
Simons, Charles	Rimbey	761	Sept. 14, 1915
Simpson, Harry	Merna	762	Sept. 14, 1915
Sims, James E.	Edmonton	780	Sept. 20, 1915
Spallin, George W.	Fort Saskatchewan ..	781	Sept. 20, 1915
Schafer, Linley	Tudor	796	Sept. 28, 1915
Snider, Emanuel C.	Blackie	797	Sept. 28, 1915
Snyder, Joseph E.	Mere	798	Sept. 28, 1915
Smith, Joseph H.	Lethbridge	810	Oct. 14, 1915
Tellesen, Alex.	Ingleton	9	May 13, 1912
Tupper, Roy O.	Entwistle	23	May 29, 1912
Thordarson, Chris.	Clover Bar	44	July 16, 1912
Thompson, Charles	Bow Island	99	Sept. 17, 1912
Trudgeon, Thomas	High River	147	Feb. 13, 1913
Thoenke, William	Magrath	151	Feb. 19, 1913
Tweedle, Hawland T.	Fishburn	165	Mar. 19, 1913
Tucker, Leroy C.	Stavelly	169	Mar. 19, 1913
Tronson, Ludwig M.	Asker	194	Mar. 28, 1913
Tenny, Harry E.	Warner	198	Mar. 31, 1913
Tomfohr, Henry H.	Milk River	202	Mar. 29, 1913
Tweedt, Thomas	Sundial	283	May 15, 1913
Thompson, S. Bert.	High River	311	July 15, 1913
Thomas, Henry Sanford ..	Altorado	319	Aug. 6, 1913
Taje, Edwin B.	Gwynne	352	Sept. 16, 1913
Townsend, Albert E.	Mabville	385	Sept. 25, 1913
Thompson, Loren	Coronation	418	Mar. 12, 1914
Tierny, James John	Banff	441	April 6, 1914
Tinsley, Jesse C.	Taber	451	April 15, 1914
Thompson, Charles	Dickson	477	April 16, 1914
Trieglauff, John	Irvine	497	April 23, 1914
Turner, Alex. H. E.	Pakan	507	April 27, 1914
Thomas, Edward	Bassano	534	June 20, 1914
Transgard, Thomas E.	Lacombe	538	July 14, 1914
Teubner, Wilson Everett ..	Winnifred	647	April 9, 1915
Taggart, William	Ranching	684	April 16, 1915
Tigner, Clarence R.	Blackie	722	July 14, 1915
Tallman, Merdo S.	Alix	731	Aug. 13, 1915
Tutti, Omer W.	Edmonton	747	Aug. 24, 1915
Taylor, James	Pine Creek	782	Sept. 20, 1915
Underwood, Elmer A.	Gadsby	10	May 13, 1912
Utas, Charles	Manfred	132	Nov. 7, 1912
Utas, Christopher	Water Glen	64	Aug. 14, 1912
Valcour, Alga	Riviere Qui Barre ...	45	July 16, 1912
Van Horn, William	Gleichen	103	Sept 19, 1912
Venus, George E. W.	Hand Hill	372	Sept 20, 1913

TRACTION ENGINEERS' Final Certificates.---Continued.

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Varty, Walter	Pine Canyon	426	Mar. 14, 1914
Van Dewark, Wallis B.	Flagstaff	685	April 16, 1915
Willsen, William	Manyberries	16	May 18, 1912
Walters, Chas. A.	Calgary	22	May 22, 1912
Weatherhead, Marsden	Lethbridge	410	Feb. 21, 1914
Ward, Luman G.	Athabasca Landing ..	783	Sept. 21, 1915
Whitney, John E.	Iola	47	July 17, 1912
Williamson, Charles W.	Claresholm	100	Sept. 17, 1912
Wismer, Henry F.	Nanton	102	Sept. 19, 1912
Wells, Edwin Newton	Cluny	104	Sept. 19, 1912
Wiltzen, Norman	Chipman	119	Sept. 27, 1912
Walker, Earl A.	Airdrie	148	Feb. 13, 1913
Wocknitz, Edward	Lethbridge	155	Mar. 10, 1913
Wood, James Alex.	Grande Prairie	172	Mar. 26, 1913
Walkermeyer, Wm. H.	Camrose	195	Mar. 28, 1913
Walkermeyer, Theo. W.	Camrose	196	Mar. 26, 1913
Wilson, Ralph C.	Camrose	197	Mar. 26, 1913
Whitnack, Roy A.	Ensleigh	213	April 4, 1913
Wallace, Lewis B.	Heath	266	April 26, 1913
Ward, Benj. W.	Loverna	340	Sept. 9, 1913
Whitehead, Bert.	Claresholm	560	Sept. 18, 1913
Winge, Hugo	Stavely	361	Sept. 18, 1913
Walgren, Clarence E.	Vulcan	373	Sept. 20, 1913
Whitford, John A.	Pakan	386	Sept. 25, 1913
Woolhouse, William H.	Thibald	387	Sept. 25, 1913
Wiese, Fred. C.	Lethbridge	399	Nov. 8, 1913
Wickens, J. A.	Cayley	560	Sept. 10, 1914
Wentz, Earl R.	Medicine Hat	518	May 13, 1914
Wideman, Ivy H.	Mayton	404	Feb. 12, 1914
Westar, John H.	Edmonton	437	April 2, 1914
Winkler, John G.	Taber	452	April 15, 1914
Weaver, Guy V.	Calgary	489	April 21, 1914
Wojcik, Egnats	Bow Island	498	April 23, 1914
Wojcik, Charles	Bow Island	499	April 23, 1914
Watts, Charles D.	Rising Sun	510	April 27, 1914
Wagar, Jacob E.	Medicine Hat	517	May 13, 1914
Waldis, Hieronymus	Calgary	522	May 18, 1914
Willoughby, Charles	Edmonton	524	May 19, 1914
Winbigler, Zerotus F.	Shaftesbury	571	Sept. 23, 1914
Wolverton, John C.	Tawatinaw	584	Sept. 30, 1914
Waldron, Walter S.	Clive	624	Mar. 12, 1915
West, Wm. W.	Metisco	686	April 16, 1915
Weims, Joseph M.	Rockyford	707	May 18, 1915
Walkey, Henry H.	Aetna	738	Aug. 20, 1915
Wolf, Guy R.	Millet	748	Aug. 24, 1915
Wright, John Henry	Mountain House	817	Nov. 17, 1915
Yates, Ray	Calgary	161	Mar. 14, 1913
Yerxa, William H.	Lethbridge	328	Aug. 12, 1913
Yoder, Ira M.	Taber	453	April 15, 1914
Young, William	Peguis	486	April 17, 1914
Yorgason, James Leroy	Granum	726	July 15, 1915
Zeyen, Charles	Lethbridge	423	Mar. 14, 1914
Zigannas, Nicholas	Luzan	487	April 17, 1914
Zucht, Gustav	Stony Plain	585	Sept. 30, 1914

FIREMEN'S Final Certificates.

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Allen, Frederick	Edmonton S.	8	April 26, 1913
Aris, Albert G. S.	Calgary	55	Jan. 27, 1915
Anderson, Carl C.	Calgary	104	Dec. 16, 1915
Boyce, Walter E.	Calgary	23	Dec. 31, 1913
Bufus, John	Calgary	29	Feb. 19, 1914
Barnes, Arthur J.	Calgary	35	April 14, 1914
Brown, Rhad. E.	Edmonton	36	May 13, 1914
Beane, John	Calgary	41	May 20, 1914
Black, George	Calgary	47	Aug. 22, 1914
Bennett, James Edwin	Edmonton	68	April 20, 1915
Brushett, Eli	Edmonton	69	April 20, 1915
Botsford, Fred.	Edmonton	79	May 12, 1915
Bowen, John Wesley	Edmonton	96	Oct. 13, 1915
Berke, Frank C.	Calgary	102	Nov. 29, 1915
Carslake, Albert E.	Banff	34	April 6, 1914
Copper, James A.	Edmonton	37	May 13, 1914
Carr, Thomas T.	Edmonton	38	May 13, 1914
Christian, Rufus Henry	Edmonton	49	Nov. 19, 1914
Cowie, John	Calgary	50	Nov. 23, 1914
Chandler, John W.	Lethbridge	54	Jan. 13, 1915
Croft, Robert Henry	Pocahontas	57	Mar. 26, 1915
Carlyle, David P.	Lethbridge	92	Aug. 20, 1915
Cheshire, Sam	Edmonton	97	Oct. 13, 1915
D'Altroy, George	Medicine Hat	24	Jan. 10, 1914
Denby, Melvin S.	Calgary	45	June 20, 1914
Donald, John G.	Edmonton	58	April 5, 1915
Donald, Archibald Scott	Edmonton	70	April 20, 1915
Douglas, James	Edmonton S.	71	April 20, 1915
Dunlap, Mortimer	Calgary	84	May 13, 1915
Emeny, Thomas	Edmonton S.	72	April 20, 1915
Earsley, Floyd H.	Calgary	85	May 18, 1915
Fenton, Daniel L.	Edmonton	9	June 21, 1913
Fows, Roland	Edmonton S.	14	Oct. 14, 1913
Faure, Henri	Calgary	27	Feb. 5, 1914
Forest, John	Calgary	42	May 20, 1914
Fletcher, Thomas	Calgary	53	Dec. 17, 1914
Fowler, Arthur	Edmonton	73	April 20, 1915
Gagne, Joseph C.	Midnapore	51	Nov. 23, 1914
Glover, William	Edmonton	93	Aug. 24, 1915
Gentis, Cornelius M.	Edmonton	98	Nov. 15, 1915
Hodson, John	Edmonton	15	Oct. 14, 1913
Ham, Edwin	Brickburn	39	May 18, 1914
Hunt, Samuel George	Calgary	40	May 18, 1914
Hunter, James S.	Edmonton	99	Nov. 15, 1915
Illingworth, William	Edmonton	28	Feb. 9, 1914
Lee, Elling	Calgary	3	Sept. 19, 1912
Laskey, Francis W.	Edmonton S.	16	Oct. 14, 1913
Lawrence, John	Edmonton S.	32	April 2, 1914
Langlands, James	Edmonton	59	April 5, 1915
Lindsay, John	Pocahontas	78	April 23, 1915
Miller, John B.	Calgary	1	June 21, 1912
Mendte, Theodore	Edmonton	10	June 21, 1913

FIREMEN'S Final Certificates.---Continued.

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Marshall, Andrew	Edmonton	43	June 8, 1914
Magee, William	Edmonton S.	60	April 5, 1915
Maddeson, Charles A.	Edmonton	61	April 5, 1915
Marshall, Fred.	Edmonton	62	April 5, 1915
Matthews, William	Edmonton S.	80	May 12, 1915
Martin, John	Edmonton	101	Nov. 29, 1915
McCartney, Grant	Edmonton	4	Oct. 8, 1912
McDiarmid, Donald	Calgary	30	Feb. 19, 1914
McCormack, Sam G.	Edmonton	74	April 20, 1915
McDermid, Arch. J.	Edmonton S.	75	April 20, 1915
Nichols, Albert L.	Langdon	21	Dec. 17, 1913
Neale, William	Edmonton	48	Oct. 19, 1914
Orchard, William	Edmonton	77	April 20, 1915
Price, William	Edmonton	17	Oct. 14, 1913
Pelletier, Henry S.	Monarch	90	Aug. 12, 1915
Powers, Harry W.	Edmonton	95	Sept. 20, 1915
Rigimbal, Louis A.	Lethbridge	6	Jan. 15, 1913
Richardson, Thomas	Edmonton	7	Mar. 26, 1913
Ryder, James J.	Calgary	18	Nov. 7, 1913
Russell, John W.	Calgary	19	Nov. 7, 1913
Reilly, Francis	Medicine Hat	31	Mar. 16, 1914
Rogers, David	Calgary	44	June 8, 1914
Riddick, Alex.	Edmonton	63	April 5, 1915
Rowland, Frank	Edmonton	81	May 12, 1915
Spendlove, Joseph	Edmonton S.	5	Jan. 13, 1913
Switzer, Charles W.	Medicine Hat	11	July 10, 1913
Scott, Henry Joseph	Lethbridge	13	Oct. 6, 1913
Sargeant, Gordon	Banff	22	Dec. 17, 1913
Severson, Anton	Calgary	25	Jan. 12, 1914
Shultz, John D.	Calgary	26	Jan. 12, 1914
Sanderson, Thomas K.	Calgary	46	Aug. 22, 1914
Switzer, Oscar F.	Medicine Hat	52	Dec. 15, 1914
Schamuhn, Renold	Edmonton	64	April 5, 1915
Schmidt, William	Edmonton	76	April 20, 1915
Simpson, James B.	Edmonton	82	May 12, 1915
Seaman, Kenneth R.	Edmonton	86	June 15, 1915
Scott, Fred.	Calgary	103	Nov. 29, 1915
Taylor, John H.	Edmonton	56	Feb. 12, 1915
Turner, John Richard	Edmonton	65	April 5, 1915
Turnock, Charles	Edmonton	66	April 5, 1915
Willis, Percy W.	Calgary	2	June 21, 1912
Wahl, George F.	Calgary	12	Aug. 23, 1913
Williams, Frank John	Calgary	20	Nov. 27, 1913
Waller, Benj. W.	Edmonton	67	April 5, 1915
Wrench, John	Edmonton	83	May 12, 1915
Wilson, Alex.	Edmonton	87	June 15, 1915
Watson, Gabriel	Edmonton	88	June 15, 1915
Wyllie, George	Edmonton	89	July 13, 1915
Wade, William	Innisfail	91	Aug. 13, 1915
Wilson, John	Edmonton	94	Aug. 27, 1915
Zinda, Bernard	Edmonton	33	April 2, 1914

CORRESPONDENCE BRANCH

Letters—	Received	Sent	Postage	War Tax
Engineering Branch	30,357	26,563	\$ 681.38	\$166.52
Surveys Branch	12,665	12,796	251.21	53.14
Coal Mines Branch	7,707	7,722	201.69	38.58
Steam Boilers Branch	3,589	3,531	152.08	22.11
Totals	54,318	50,617	\$1,286.36	\$280.35
Cash Received—		Entries		Amount
Engineering Branch		124		\$ 8,981.19
Surveys Branch		265		11,458.92
Coal Mines Branch		421		9,270.67
Steam Boilers Branch		563		16,206.55
Totals		1,373		\$45,917.33
Cash received and transferred to other depts.				\$4,290.21
Registered Letters Sent			5,661	
Registered letters received			985	
New Files Made and Indexed—				
Engineering Branch				678
Surveys Branch				917
Coal Mines Branch				71
Total				1,666
Correspondence Report—		1914		1915
Number of letters received		52,985		54,318
Number of letters sent		50,959		50,617
Total number of communications		103,944		104,935
Number of items of cash received		1,608		1,373
Amount of cash received		\$61,392.22		\$45,917.33
Number of registered letters received		1,302		985
Number of registered letters sent		6,000		5,661
Amount of postage used		\$1,319.93		\$1,286.36
War Tax				280.35
Number of new files made and indexed		1,900		1,666

Respectfully submitted,

W. T. AIKEN,

Chief Correspondence Clerk.

L. C. CHARLESWORTH, Esq.,

Deputy Minister of Public Works,

Edmonton, Alberta.

Sir,—As Accountant of the Department of Public Works, I have the honour to submit, herewith, my annual report for the year ending December 31st, 1915.

During the year 1915 the amount of Revenue received by this branch is again (as was the case in 1914) less than the previous year, and is, also, owing chiefly to the fact that there were fewer subdivisions registered. The Steam Boilers Branch is about the same. The Coal Mines Branch shows a decrease of about \$500.00.

Below you will find reported in detail the work of the Department:

Amount provided for capital expenditure during 1915	\$1,385,000.00		
Amount provided for expenditure chargeable to income	593,520.00	\$1,978,520.00	
Amount provided for civil government expenditure		80,580.00	
		<u>\$2,059,100.00</u>	
Monies collected during 1915 on account of Public Works Department, as detailed below and placed to the credit of general revenue:			
Steam Boilers Branch	\$16,041.30		
Coal Mines Branch	11,951.70		
Surveys Branch:			
Grazing leases	\$ 466.00		
Townsite plans	10,508.00		
Sundries	1,055.82	12,029.82	
Monies collected by Public Works on account of sale of material and refunds	38,628.39		
Monies collected on account of Patriotic Fund	18,230.62	56,859.01	96,881.83
Monies collected by Public Works and placed to the credit of General Revenue Suspense Account	15,038.18		
Monies on hand in General Revenue Suspense Account as represented by cash book balance		1,980.40	
Amounts received from L. I. Districts and placed to the credit of Trust Account "A"		105,882.19	
Amount expended for work from Trust Account "A" during 1915		87,702.03	
Credit bank balance on Trust Account "A" from 1914		65,321.28	
Amount expended by Public Works during 1915:			
Income	\$ 553,962.52		
Capital	1,170,398.56		
		<u>1,724,371.08</u>	
Amount expended in connection with Civil Government		67,259.32	
Receipts	\$ 270,065.70		
Expenditure	1,879,332.43		
	<u>\$2,149,398.13</u>		<u>\$2,149,398.13</u>

Details of expenditure from all sources for the year are as follows:

Furnishing and maintenance of all public buildings, \$240,968.05; caretaking and maintenance of Government House, \$10,116.40; completing and furnishing new buildings throughout the Province during the year, \$369,657.95.

Inspection of public works in connection with smaller works, \$5,504.01; the inspection of trunk roads and bridges, as well as the larger class of wooden and steel bridges, cost \$9,277.78; inspection of coal mines and maintenance of rescue apparatus, cost \$28,654.99; the amount expended in connection with installation of rescue stations amounted to \$2,860.79.

Inspection of steam boilers cost \$28,083.05.

Maintenance and operation of existing ferries, in the Province, cost \$47,314.11, and the installation of new ferries cost \$13,214.54; repairs and maintenance of existing bridges in the Province cost \$11,077.06; the cost of the larger wooden and steel bridges was \$111,248.05; the amount expended in connection with trunk roads, and the necessary bridges thereon, was \$525,779.49, while the amount spent in connection with the ordinary roads was \$173,434.69.

The full amount of expenditure incurred by the survey parties in the field, together with the necessary cost of road diversions, amounted to \$122,393.09, and the administration of this branch, along with the supervision of plans, and the necessary office expenses, amounted to \$5,425.23.

The cost of finishing material purchased and worked up in the carpenter and blacksmith shops for the various Provincial buildings amounted to \$9,501.67.

The amount expended for "unforeseen and unprovided for", was \$3,384.93.

Sites purchased for Provincial buildings amounted to \$5,965.20.

The total amount expended upon staff salaries for the year was \$61,112.45; telegrams, telephone messages, and express, \$943.02; sundries, including printing, \$3,677.37, and postage, \$1,526.48, making a total of \$67,259.32.

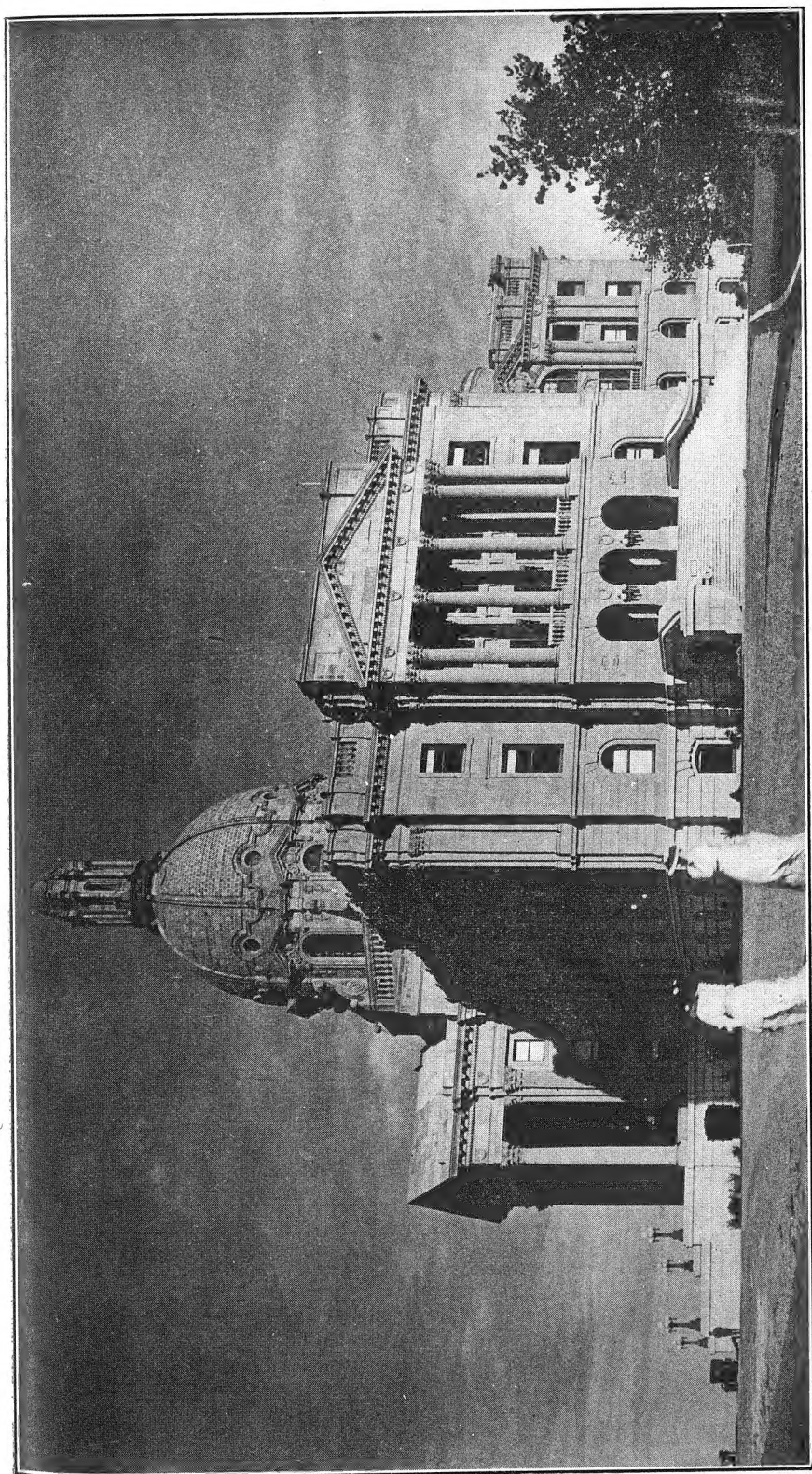
The amount expended from the L. I. Trust Account "A" Funds was \$87,702.03. Of this amount, \$11,900.00 was paid to the Provincial Treasurer as a proportion of cost to be borne by this account for the administration of its affairs through the Department of Municipal Affairs.

Number of accounts examined and passed to the Treasury Department for payment during 1915	15,957
Number of accounts passed for payment in connection with Trust Account "A" during 1915	1,095
Total number of accounts passed for payment	17,052
Number of cheques issued in connection with Trust Account "A" in payment of accounts	3,233
Number of cheques issued in connection with General Revenue Suspense Account during the year	184
	3,417

Respectfully submitted,

TOM S. S. DAVIES,

Accountant of Public Works.



PARLIAMENT BUILDINGS, EDMONTON.

